

Air Quality Conformity Analysis

State Route 65, Cities of Roseville, Rocklin, and Lincoln, Placer County 03-PLA-65 PM R6.2 to R12.8

EA 03-1F170

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Prepared By:

Hatcher

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Shannon Hatcher Air Quality, Climate Change, and Noise Project Manager ICF International, Sacramento

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Acronyms and Abbreviations

AADT	Average annual daily traffic
Caltrans	California Department of Transportation
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
СО	carbon monoxide
CO Protocol	California Project-Level Carbon Monoxide Protocol†
EPA	U.S. Environmental Protection Agency
FHWA	Federal Highway Administration
HOV	high occupancy vehicle
I-80	Interstate 80
IAC	Interagency Consultation
LOS	level of service
mph	miles per hour
MTIP	Metropolitan Transportation Improvement Program
MTP	Metropolitan Transportation Plan
NAAQS	National Ambient Air Quality Standards
NEPA	National Environmental Policy Act
NO ₂	nitrogen dioxide
O ₃	ozone
PCTPA	Placer County Transportation Planning Agency
PLCG	Project Level Conformity Group
PM	particulate matter
POAQC	Projects of Air Quality Concern
ppm	parts per million
RTP	Regional Transportation Plans
SACOG	Sacramento Area Council of Governments
SCS	Sustainable Communities Strategy
SER	Standard Environmental Reference
SIP	state implementation plan
SR 65	State Route 65
SVAB	Sacramento Valley Air Basin
TCMs	Transportation Control Measures
TIP	transportation improvement program
VA	Value Analysis

Chapter 1 Introduction and Project Description

This Air Quality Conformity Analysis contains the information that is required to make a project-level air quality conformity determination for the SR 65 Capacity and Operational Improvements Project. This analysis has been prepared to be consistent with information published by Federal Highway Administration (FHWA) related to Project-Level Conformity Analysis, the Standard Environmental Reference (SER) Air Quality Conformity Findings Checklist (included as Appendix A), applicable U.S. Environmental Protection Agency (EPA) project-level analysis guidance, the Transportation Conformity Regulations at 40 Code of Federal Regulations (CFR) 93 Subpart A, and Section 176(c) of the federal Clean Air Act (42 U.S. Code [USC 7506] (c)).

This analysis only addresses the conformity requirements of the Federal Clean Air Act. It does not address general air quality analysis or studies conducted for the National Environmental Policy Act (NEPA) or the California Environmental Quality Act (CEQA), and only addresses pollutants for which the project area is designated nonattainment, or attainment with an approved maintenance state implementation plan (SIP), by EPA.

This report is intended to provide all information needed by FHWA to make a project-level conformity determination for a project that falls under 23 USC 327 NEPA Assignment to Caltrans; or to support a full project-level conformity determination by Caltrans under 23 CFR 326 NEPA Assignment for projects that require a project-level conformity determination (including regionally significant projects as defined in 40 CFR 93.101), and that are categorically excluded from NEPA analysis under 23 CFR 771.117(c)(22) or 23 CFR 771.117(c)(23).

1.1 **Project Description**

Caltrans, in cooperation with the PCTPA, Placer County, and the Cities of Roseville, Rocklin, and Lincoln, proposes the SR 65 Capacity and Operational Improvements Project (6.6 miles, from post miles 6.2 to 12.8). This proposed project has been assigned the Project Development Processing Category 4A for widening the existing freeway without requiring a revised freeway agreement. The project is subject to both federal and state environmental review requirements. Caltrans is the lead agency under both NEPA and CEQA. The proposed project is included in SACOG's current 2016 MTP/SCS (Sacramento Area Council of Governments 2016). Engineering for the project is programmed in the SACOG 2015/2018 MTIP (Sacramento Area Council of Governments 2014).

1.2 **Project Location**

The project is located in Placer County in the cities of Roseville, Rocklin, and Lincoln (Figure 1). The project limits consist of SR 65 north of Galleria Boulevard/Stanford Ranch Road to Lincoln Boulevard (PM R6.2 to R12.8). The total length of the project is 6.6 miles.

1.3 Project Background

SR 65 begins at its junction with Interstate 80 (I-80) and is an important interregional route serving both local and regional traffic. SR 65 generally runs north/south and is a major connector for both automobile and truck traffic originating from the I-80 corridor in the Roseville/Rocklin area to the SR 70/99 corridor in the Marysville/Yuba City area. SR 65 is a vital economic link from residential areas to shopping and employment centers in southern Placer County. It is also an important route for transporting aggregate, lumber, and other commodities. SR 65 is characterized by significant growth in the industrial, commercial, and residential sectors. The southern Placer County region is one of the fastest growing areas in California, both in terms of housing and economic development.

SR 65 was constructed as a two-lane expressway in 1971. The Roseville Bypass from I-80 to Blue Oaks Boulevard was constructed in 1985. SR 65 from Blue Oaks Boulevard to Twelve Bridges Drive was widened to a four-lane facility in 1999. In 2009, the Caltrans Corridor System Management Plan for SR 65 identified major mobility challenges, including highway and roadway traffic congestion, lack of roadway capacity, and inadequate transit funding. A Supplemental Traffic Report was completed in June 2012 by Caltrans District 3 Office of Freeway Operations. The report indicated that the segment of SR 65 from Galleria Boulevard/Stanford Ranch Road to Lincoln Boulevard was experiencing operational problems caused by high peak-period traffic volumes, vehicles hours of delay, average speeds, travel time, and other traffic performance measures that were deteriorating as a result of increasing growth in the surrounding areas. In 2013, a Project Study Report-Project Development Support for Capital Support was approved for adding one vehicle lane in each direction in the median of SR 65 from 0.5 mile north of Galleria Boulevard/Stanford Ranch Road to Lincoln Boulevard.

PCTPA has identified the proposed project as a high-priority regional network project in its 2036 Regional Transportation Plan. This project is included in the South Placer Regional Transportation Authority Regional Traffic Congestion and Air Quality Mitigation Fee Program.

1.4 Related Projects

Related projects in the project area that require coordination with the proposed project include the following.

I-80/SR 65 Interchange Improvements Project. This proposed project consists of various modifications to I-80, SR 65, and the interchange at their junction. This project will terminate north of the Galleria Boulevard/Stanford Ranch Road interchange on SR 65, tying into the southern limits of the proposed SR 65 Capacity and Operational Improvements project. The proposed improvements to the I-80/SR 65 interchange include adding a high-occupancy vehicle (HOV) direct connector from I-80 eastbound to SR 65 northbound and SR 65 southbound to I-80 westbound, replacing eastbound I-80 to northbound SR 65 loop connector with a flyover connector, widening the East Roseville Viaduct, replacing the Taylor Road overcrossing, and widening southbound SR 65 to westbound I-80, westbound I-80 to northbound SR 65, and southbound SR 65 to eastbound I-80 connectors with associated auxiliary lanes and ramp realignments. The interchange project will be constructed in phases and coordination with SR 65 Capacity and Operational Improvements Project is required.

Whitney Ranch Parkway Interim Phase Project. This project is located in the City of Rocklin and Placer County along SR 65 between Sunset Boulevard and Twelve Bridges Drive. The project will provide a direct connection to Whitney Ranch Parkway from SR 65 to serve the City of Rocklin. The interim phase will construct the SR 65/Whitney Ranch Parkway interchange and will include a three-lane SR 65 overcrossing, two-lane connection to the Whitney Ranch Parkway/University Avenue intersection, northbound SR 65 on and off-ramps, and a southbound SR 65 loop on-ramp. The project also would construct provisions for ramp metering and an HOV preferential lane for each SR 65 on-ramp. The construction contract for this project was recently awarded and construction is underway. The project was opened to traffic in September 2016.

Placer Parkway Phase I Project. This project is Phase I of the Placer Parkway project. Phase I proposes to extend freeway access at SR 65 by building a new roadway connection west to Foothills Boulevard North. The Phase I project will modify the Whitney Ranch Interchange into an L-9 partial cloverleaf interchange by adding a diagonal southbound off-ramp and on-ramp as well as an eastbound Placer Parkway to northbound SR 65 loop on-ramp. The project will also widen the SR 65 overcrossing from a three-lane structure to a six-lane facility and extend Placer Parkway to the west as a four-lane facility. Ultimately, the Placer Parkway project would construct a new transportation facility connecting SR 65 in the Lincoln/Roseville/Rocklin area to SR 99 in Sutter County.

Northbound SR 65 Carpool Lane. A new lane on SR 65 northbound from the Galleria Boulevard/Stanford Ranch Road interchange to the Blue Oaks Boulevard interchange is planned as a future project and will be included in the next MTP update. For the purposes of this project, the new lane was assumed as a carpool/HOV lane and would connect to the carpool/HOV lanes proposed in the I-80/SR 65 interchange project



Figure 1- Project Vicinity

State Route 65 Capacity and Operational Improvements 03-PLA-65-PM 6.2/12.8 (EA-03-1F170/EFIS 0300001103)

1.5 Purpose and Need

1.5.1 Purpose

The primary purpose of the proposed project is to relieve existing mainline congestion by adding additional mainline capacity. Adding additional capacity would help planned and anticipated growth along the corridor and would help achieve the mobility and economic development goals of the PCTPA.

The project will also improve traffic operations and safety in this segment of the highway.

1.5.2 Need

Recurring morning and evening peak-period demand exceeds the current design capacity along SR 65, creating traffic operations and safety issues. These issues result in high delays and wasted fuel, all of which will be exacerbated by anticipated traffic from future population and employment growth.

Projected growth along the SR 65 corridor in Roseville, Lincoln, Rocklin, and South Placer County will result in additional mainline congestion. SR 65 connects major regional routes and must operate efficiently in order to serve commuter traffic, goods movement, and regional traffic in south Placer County.

1.6 Project Alternatives

Two build alternatives and a no-build alternative are being considered for this project. The assessment of alternatives is based on 2040 design-year conditions. No decision on a preferred alternative will be made until all alternatives have been fully evaluated.

1.6.1 No-Build Alternative

Under the No-Build Alternative, SR 65 within the Project limits would maintain the existing lane configuration, and no SR 65 mainline widening would be constructed. However, several related transportation capacity expansion projects are planned in the study area under construction year (2020) and design year (2040) conditions.

1.6.2 Build Alternatives

Both build alternatives described in this section would allow for inside highway widening as future projects along SR 65 from north of the Blue Oaks Boulevard interchange to Lincoln Boulevard. Both alternatives would accommodate the I-80/SR 65 Interchange Improvements

Project and consider the carpool/ HOV lane restrictions and weaving volumes from the carpool/HOV lanes proposed by the I-80/SR 65 interchange project.

1.6.2.1 Carpool Lane Alternative

This alternative adds a 12-foot carpool/HOV lane in the southbound direction of SR 65 in the median from the Blue Oaks Boulevard interchange to north of Galleria Boulevard/Stanford Ranch Road. The carpool/HOV lane would connect to the carpool/HOV lanes proposed as part of the I-80/SR 65 interchange project. The separate I-80/SR 65 interchange Improvements project will add a third lane in each direction of SR 65 from I-80 to Pleasant Grove Boulevard. This SR 65 Capacity and Operational Improvements project alternative would also add one 12-foot general purpose lane through the Pleasant Grove Boulevard. This alternative would also add one SR 65 in both directions from I-80 to Blue Oaks Boulevard. This alternative would also add an auxiliary lane in each direction of SR 65 from the Galleria Boulevard interchange to the Pleasant Grove Boulevard interchange, from the Blue Oaks Boulevard interchange to the Sunset Boulevard interchange, and from the Whitney Ranch Parkway interchange to the Twelve Bridges Drive interchange.

Following the recommendation from the Value Analysis (VA) study, this alternative would also include ramp metering modifications for the slip on-ramps to a 2+1 configuration (2 metered lanes plus 1 carpool preferential lane) and a 1+1 (1 metered lane plus 1 carpool preferential lane) for the loop on-ramps along SR 65 from the Galleria Boulevard interchange to Lincoln Boulevard, where not already planned by another project. The southbound Pleasant Grove Boulevard slip and loop on-ramps, Blue Oaks Boulevard slip and loop on-ramps, and Lincoln Boulevard slip on-ramp would be modified to include these ramp metering changes. Both the northbound and southbound bridges over Pleasant Grove Creek will need to be widened to accommodate the auxiliary lanes. Widened bridge structures will be similar to the existing reinforced concrete slab bridges with piles. A Structure tie-back wall will be needed at the Pleasant Grove Blvd interchanges to accommodate the highway and ramp widening.

1.6.2.2 General Purpose Lane Alternative

This alternative would add a 12-foot general purpose lane in the southbound direction of SR 65 from the Blue Oaks Boulevard interchange to the Galleria Boulevard/Stanford Ranch Road offramp. The separate I-80/SR 65 interchange Improvements project will add a third lane in each direction of SR 65 from I-80 to Pleasant Grove Boulevard. For added capacity on southbound SR 65, as recommended by the VA study, this alternative also includes an additional general purpose lane from the Blue Oaks Boulevard slip on-ramp to the Pleasant Grove Boulevard loop on-ramp. On northbound SR 65, a 12-foot general purpose lane would be added through the Pleasant Grove Boulevard interchange. These improvements would result in a third lane in both directions of SR 65 from I-80 to Blue Oaks Boulevard. This alternative would also add an auxiliary lane on northbound SR 65 from the Galleria Boulevard interchange to the Pleasant Grove Boulevard interchange; and in both directions of SR 65 from the Blue Oaks Boulevard interchange to the Sunset Boulevard interchange, and from Whitney Ranch Parkway interchange to the Twelve Bridges Drive interchange. Following the recommendation from the VA study, this alternative would also include ramp metering modifications for the slip on-ramps to a 2+1 configuration (2 metered lanes plus 1 carpool preferential lane) and a 1+1 (1 metered lane plus 1 carpool preferential lane) for the loop-on ramps along SR 65 from the Galleria Boulevard interchange to Lincoln Boulevard. The southbound Pleasant Grove Boulevard slip and loop-on ramps, Blue Oaks Boulevard slip and loop on-ramps, and Lincoln Boulevard slip on-ramp would be modified to include these ramp metering changes.

1.6.3 Alternatives Considered and Rejected

1.6.3.1 Mix Flow to Bus/Carpool Conversion ("Take-a-lane") Alternative

This alternative converts an existing lane for carpool/HOV use within the project limits. This alternative was reviewed and rejected for not being in line with the primary purpose of relieving congestion and for its infeasibility on an existing four-lane highway (two lanes in each direction).

1.7 Common Design Details of the Build Alternatives

The two Build Alternatives include the following components.

1.7.1 Highway Widening

Median widening for additional general purpose or carpool lanes consists of removing existing inside shoulders and paving the median and giving it a standard cross slope. From Galleria Boulevard to Blue Oaks Boulevard, median widening includes removing the existing thrie beam barrier, paving the entire median, and installing concrete barrier at the center divide. The existing drainage systems, which currently collect the runoff within the median and carry it into the existing cross culverts, would be abandoned, removed, or modified.

The paved median would generate new impervious area for the runoff to sheet flow across the travel way to the outside shoulder. On areas with fill material, runoff would be collected by the toe ditch or gutter and carried to the existing channel or waterway. On cut material, runoff would be channelized by the asphalt concrete dike on the edge of the roadway shoulder and discharged to the ditch or toe gutter through an overside drain. At shoulder cut locations, the water spread

would be checked to see if drainage inlets are needed to avoid water spread encroaching into the freeway edge of travel way. The new roadway drainage system would connect the inlets and pipe down the ditch or toe gutter. Most of the existing ditch or toe gutter would remain to collect runoff, except for segments affected by outside widening for auxiliary lanes; those segments would be replaced or reconstructed. To minimize downstream effects, the proposed project would maintain the existing drainage pattern, which ultimately drains toward two waterways—Pleasant Grove Creek and Orchard Creek.

The median widening along northbound and southbound SR 65 would provide standard 10-foot inside shoulders.

Auxiliary lanes would be constructed by widening the existing pavement to the outside, including the replacement of existing outside shoulder with standard cross slope and side slopes of 4:1 or flatter for the fill for most of the corridor, to meet the minimum requirements specified in the Caltrans Highway Design Manual (Caltrans 2015). Segments along the corridor between Stanford Ranch Road and Pleasant Grove Boulevard and between the Whitney Ranch Parkway and Twelve Bridges Drive interchanges would require side slope of 3:1 or steeper, with a 30-foot clear recovery zone to avoid encroaching beyond existing right of way and wetlands or overfilling existing drainage ways. These areas along the corridor would require exceptions to Caltrans advisory design standards.

A tie-back wall would be needed at the Pleasant Grove Boulevard interchange to accommodate the highway and ramp widening. A segment on southbound SR 65 between the Whitney Ranch Parkway and Twelve Bridges Drive interchanges would require a cut slope of 3:1 to avoid encroaching into existing right of way; slopes at 3:1 or flatter are considered traversable, but would need approval from Caltrans Landscape Architecture.

1.7.2 Pleasant Grove Creek Bridge Widening

Both the northbound and southbound bridges over Pleasant Grove Creek would be widened to accommodate the auxiliary lanes. The widened bridge structures would be similar structure types to the existing bridges, which are reinforced concrete slab bridges with piles. Pile driving within the creek is anticipated.

1.7.3 Utility Relocation

Overhead electric facilities run parallel along northbound SR 65 outside of State right-of-way. At Pleasant Grove Creek, the overhead line turns east-west and crosses over SR 65. The overhead electric hangs over both the Pleasant Grove Creek bridges that are proposed for widening. The proximity of the overhead line may conflict with bridge foundation activities during

construction. The overhead line may therefore need to be temporarily relocated outside of the creek area to accommodate widening the Pleasant Grove Creek bridges. Any relocation of transmission towers or power lines would be conducted consistent with Public Utilities Commission General Order 131-D.

1.7.4 Cross Culvert Extension

Several culverts cross the SR 65 corridor. Most of the cross culverts would not be affected by the Project because they are of adequate length. A few culverts are short and would need to be extended to accommodate the proposed auxiliary lanes along the corridor. The following culverts would be extended.

- Double 72" Reinforced Concrete Pipe between Galleria Boulevard and Pleasant Grove Boulevard
- Double 7'x6' Reinforced Concrete Box between Pleasant Grove Boulevard and Blue Oaks Boulevard
- Double 10'x5' Reinforced Concrete Box between Blue Oaks Boulevard and Sunset Boulevard
- 7'x5' Reinforced Concrete Box between Whitney Ranch Parkway and Twelve Bridges Drive
- Triple 10'x5' Reinforced Concrete Box between Whitney Ranch Parkway and Twelve Bridges Drive

1.7.5 Staging/Laydown Areas

No specific staging/laydown areas have been identified. However, the contractor may utilize areas within the existing median and areas between the main line and interchange on- and off-ramps for staging or laydown.

1.7.6 Construction Equipment and Techniques

Equipment that would be used for construction includes graders, excavators, drilling rigs, cranes, pavers, compactors, and various types of construction vehicles. Project design and construction would incorporate the following standard construction measures.

- A preliminary site-specific geotechnical report and initial site assessment will be prepared and will be incorporated into the project's final design. If contaminated soil or groundwater, or suspected contamination, is encountered during construction, work will be halted in the area and the type and extent of the contamination identified. A qualified professional, in consultation with Caltrans, will then develop an appropriate method to remediate the contamination.
- A site-specific stormwater pollution prevention plan will be prepared for the construction.

- Fugitive dust emissions during construction will be minimized by applying water frequently from water trucks. Fugitive dust emissions from wind erosion of inactive areas disturbed by construction activities will also be controlled by applying water. Chemical dust suppressants will not be used unless approved for direct application to surface waters.
- The contractor will be required to install temporary best management practices (BMPs) to control any runoff or erosion from the project site, into the surrounding waterways. These temporary BMPs will be installed prior to any construction operations and will be in place for the duration of the contract. Removing these BMPs will be the final operation, along with the project site cleanup.

1.7.7 Construction Access

Temporary construction easements may be required for the contractor to access construction areas. Access to construction areas would be from the interchanges at Pleasant Grove Boulevard, Blue Oaks Boulevard, Sunset Boulevard, Whitney Ranch Parkway, Twelve Bridges Drive, and Lincoln Boulevard. Two lanes in each direction on SR 65 are anticipated to remain open to traffic for the majority of the project's duration.

1.8 Air Quality Regulatory Framework

Table 1 shows that the project is located in an area that is nonattainment for ozone (O₃) and particulate matter (PM2.5) and maintenance for carbon monoxide (CO). This analysis focuses on these criteria pollutant(s). The conformity process does not address pollutants for which the area is attainment/unclassified, mobile source air toxics, other toxic air contaminants or hazardous air pollutants, or greenhouse gases.

Criteria Pollutant	Federal Attainment Status
Ozone (O ₃)	Severe 15 Nonattainment
Nitrogen Dioxide (NO2)	Attainment
Carbon Monoxide (CO)	Moderate Maintenance
Particulate Matter (PM10)	Attainment
Particulate Matter (PM2.5)	Moderate Nonattainment

Table 1. Project Area Attainment Status

Source: United States Environmental Protection Agency 2016

Table 1 shows the applicable federal attainment status for O₃, nitrogen dioxide (NO₂), CO, PM10, and PM2.5 for the portion of Placer County within the Sacramento Valley Air Basin (SVAB), including the project area. The 8-hour federal O₃ nonattainment classification applies to the Sacramento Metropolitan Area, which is defined as the area between Yolo and Solano Counties on the west and the western majority of Placer and El Dorado Counties on the east. The 24-hour PM2.5 standard nonattainment classification applies to the majority of the SVAB south of Tehama County. The CO maintenance area consists of portions of Placer, Yolo, and

Sacramento Counties that are located within the Sacramento metropolitan area. Maps showing the nonattainment designations for these pollutants are provided in Appendix B.

1.9 Public Review Comments Related to Air Quality Conformity

Circulation for public comment was not required because the NEPA determination for this project is a Categorical Exclusion.

Chapter 2 Regional Conformity

The SR 65 Capacity and Operational Improvements Project was included in the regional emissions analysis conducted by SACOG for the conforming 2016 MTP/SCS (SACOG ID PLA25529, PLA25637, and PLA25638). The project's design concept and scope have not changed significantly from what was analyzed in the regional emission analysis. This analysis found that the plan, which takes into account regionally significant projects and financial constraint, will conform to the state implementation plan(s) (SIP(s)) for maintaining the National Ambient Air Quality Standards (NAAQS) as provided in Section 176(c) of the Clean Air Act. FHWA determined that the 2016 MTP/SCS conforms to the SIP on March 8, 2016. Additional documentation related to the regional emissions analysis is contained in Appendices D and E.

The SR 65 Capacity and Operational Improvements Project is also included in the federal 2015–2018 MTIP. The project's open-to-traffic year is consistent with (within the same regional emission analysis period as) the construction completion date identified in the federal TIP and/or RTP. The federal TIP gives priority to eligible Transportation Control Measures (TCMs) identified in the SIP and provides sufficient funds to provide for their implementation. FHWA determined that the 2015–2018 MTIP, Amendment #20, conforms to the SIP on March 8, 2016. Documentation related to the public and interagency consultation process conducted to develop the TIP is contained in Appendices D and E.

Chapter 3 Localized Impact (Hot-Spot) Conformity

3.1 Carbon Monoxide Hot-Spot Analysis

The California Project-Level Carbon Monoxide Protocol[†] (CO Protocol) was used to analyze CO impacts for the project. The hot-spot analysis covered the most congested intersections affected by the project in 2012 (existing year), 2020 (construction year), and 2040 (design year), with 2012 conditions having the highest concentrations.

The ambient air quality effects of traffic emissions were evaluated using the modeling procedures described in Appendix B of the CO Protocol and Appendix E of this document. The assumptions used in the hot-spot analysis are consistent with those used in the regional emissions analysis.

The modeling results shown in Appendix E indicate that total CO concentrations would not cause or contribute to any new localized violations of the federal 1-hour or 8-hour CO ambient standards. Appendix F provides model input data and output reports.

The NEPA document for this project does not identify specific avoidance, minimization, and/or mitigation measures for CO. A written commitment to implement such control measures is, therefore, not required.

The approved MTP/SCS and MTIP for the project area have no CO mitigation or control measures that relate to the project's construction or operation. Therefore, a written commitment to implement CO control measures is not required.

3.2 PM2.5/PM10 Hot-Spot Analysis

The portion of Placer County within the SVAB, including the project area, is currently categorized as a nonattainment area for the federal PM2.5 (2006) standard (see Table 1).

[†] CAL3QHCR can also be used, with EMFAC emission factors, in place of the CO Protocol. If this type of analysis is done, the following must be described fully: why the CO Protocol was not used; how the analysis complies with EPA regulations (Appendix W and other CO modeling guidance); modeling assumptions and inputs; outputs; and evaluation regarding whether or not the project will cause, contribute to, or worsen a CO hot-spot. Interagency consultation regarding model usage, emission factors (latest EMFAC version made available for conformity use by EPA), and results is required if CAL3QHCR is used and must be documented in a suitable appendix along with listings of all model inputs and outputs.

A quantitative PM hot-spot analysis is required under the EPA Transportation Conformity Rule for Projects of Air Quality Concern (POAQC), as described in EPA's Final Rule of March 10, 2006. Projects that are not POAQC do not require detailed PM hot-spot analysis.

In March 2006, the FHWA and EPA issued a guidance document entitled Transportation Conformity Guidance for Qualitative Hot-Spot Analyses in PM2.5 and PM10 Nonattainment and Maintenance Areas (Federal Highway Administration and U.S. Environmental Protection Agency 2006). This guidance identifies examples of projects that are most likely POAQCs and details a qualitative step-by-step screening procedure to determine whether project-related particulate emissions have potential to generate new air quality violations, worsen existing violations, or delay attainment of NAAQS for PM2.5 or PM10. EPA's and FHWA's Qualitative PM hot-spot guidance was superseded in December 2010 when EPA issued a guidance document entitled Transportation Conformity Guidance for Quantitative Hot-Spot Analyses in PM2.5 and PM10 Nonattainment and Maintenance Areas (U.S. Environmental Protection Agency 2010). This guidance prescribes a quantitative approach to performing PM hot-spot analyses to satisfy project-level transportation conformity requirements. EPA's quantitative PM hot-spot guidance was last revised in November 2015 to reflect MOVES2014 and its subsequent minor revisions such as MOVES2014a, to revise design value calculations to be more consistent with other EPA programs, and to reflect guidance implementation and experience in the field (U.S. Environmental Protection Agency 2015).

Section 93.123(b)(1) of the Conformity Rule defines the projects that require a PM2.5 or PM10 hot-spot analysis as follows.

- 1) New highway projects that have a significant number of diesel vehicles and expanded highway projects that have a significant increase in the number of diesel vehicles.
- 2) Projects affecting intersections that are at Level-of-Service D, E, or F with a significant number of diesel vehicles, or those that will change to Level-of- Service D, E, or F because of increased traffic volumes from a significant number of diesel vehicles related to the project.
- 3) New bus and rail terminals and transfer points that have a significant number of diesel vehicles congregating at a single location.
- 4) Expanded bus and rail terminals and transfer points that significantly increase the number of diesel vehicles congregating at a single location.
- 5) Projects in or affecting locations, areas, or categories of sites that are identified in the PM2.5 or PM10 applicable implementation plan or implementation plan submission, as appropriate, as sites of violation or possible violation.

The project is not considered a POAQC for PM2.5 because it does not meet the definition of a POAQC as defined in EPA's Transportation Conformity Guidance, outlined below.

1) New highway projects that have a significant number of diesel vehicles and expanded highway projects that have a significant increase in the number of diesel vehicles. Appendix B from the EPA's Transportation Conformity Guidance for Quantitative Hot-spot Analyses in PM2.5 and PM10 Nonattainment and Maintenance Areas provides guidance on what types of projects may be projects of local air quality concern 40 CFR 93.123(b)(1). Appendix B indicates that a facility with an ADT of 125,000 and 8% trucks (10,000 truck ADT) are likely considered a Project of Air Quality Concern (POAQC). The proposed project would add carpool lanes or general purpose lanes and auxiliary lanes on SR 65 from north of Galleria Boulevard/Stanford Ranch Road to Blue Oaks Boulevard, and would add auxiliary lanes from Blue Oaks Boulevard to Lincoln Boulevard to relieve existing mainline congestion and accommodate planned and anticipated growth along the corridor by adding to mainline capacity. For existing freeway facilities, the effect of a project on truck volumes is normally the main point on which this criterion is judged. The Carpool Lane Alternative under the design year (2040) condition was selected for the analysis, as traffic volumes are forecasted to be highest for the Carpool Lane Alternative when compared to the General Purpose Lane Alternative, while the design year (2040) condition represents the year with maximum traffic volumes (Fehr & Peers 2015).

Table G-1 in Appendix G indicates that AADT on the eight road segments on SR 65 for the Carpool Lane Alternative under design year (2040) conditions will vary between 127,000 and 170,900, depending on the location. Heavy-duty trucks comprise between 2.8% and 3.9% of this AADT, resulting in a truck AADT of 3,500 to 6,700 (Fehr & Peers 2015).

Based on the data presented in Table G-1 in Appendix G, predicted AADT would be in excess of the EPA's AADT guidance criterion of 125,000, while predicted truck percentages and volumes would be well below the EPA's guidance criteria of 8% or 10,000 vehicles per day (maximum truck percentages and AADT are 3.9% and 6,700, respectively). Table G-1 in Appendix G also indicates truck percentages and truck volumes for all eight segments analyzed under the Carpool Lane Alternative would decrease by 0.2 to 0.5%, relative to the No Build Alternative. Accordingly, the Build Alternatives would not serve a significant number of diesel vehicles or result in a significant increase in diesel vehicles.

2) Projects affecting intersections that are at Level-of-Service (LOS) D, E, or F with a significant number of diesel vehicles or those that will change to LOS D, E, or F because of increased traffic volumes from a significant number of diesel vehicles related to the

project. Peak-hour LOS and delay at study area intersections under existing (2012), construction (2020), and design year (2040) conditions are presented in Tables G-2 and G-3 in Appendix G. Table H-2 indicates half of all key intersections analyzed would experience increases in delay with implementation of the Build Alternatives. However, as indicated in Table G-3, less than half of all key intersections analyzed would experience increases in delay in design year (2040) conditions. As indicated in Tables G-4 through G-7 in Appendix G, the Build Alternatives would result in reduced congestion and delay on the local regional network, with substantial improvements in measures of effectiveness seen under some conditions. For example, between 11 and 13% reductions in vehicle hours of delay are seen in the AM peak period in the design year and between 21 and 22% reductions in vehicle hours of delay for the PM peak period in the design year. In addition, none of the study intersections have a significant number of trucks (3% during the AM peak hour and 2% during the PM peak hour under Year 2040 conditions), therefore, the proposed project would not affect any at-grade intersections with a high number of diesel vehicles.

- 3) New bus and rail terminals and transfer points that have a significant number of diesel vehicles congregating at a single location. The project does not include new bus or rail terminals and transfer points.
- 4) Expanded bus and rail terminals and transfer points that significantly increase the number of diesel vehicles congregating at a single location. The project does not include expanded bus or rail terminals and transfer points.
- 5) **Projects in or affecting locations, areas, or categories of sites that are identified in the PM2.5 or PM10 applicable implementation plan or implementation plan submission, as appropriate, as sites of violation or possible violation**. SMAQMD's PM2.5 SIP, *PM2.5 Implementation/Maintenance Plan and Redesignation Request for Sacramento PM2.5 Nonattainment Area*, has not identified any locations, areas, or categories of sites as s site of violation or possible violation.

The project is not considered a POAQC for PM10 and/or PM2.5 because it does not meet the definition of a POAQC as defined in EPA's Transportation Conformity Guidance. Therefore, a PM hot-spot analysis is not required.

The project underwent interagency consultation through SACOG's Project Level Conformity Group (PLCG), which issued concurrence that the project is not a POAQC on August 9, 2016. Appendix H contains the documentation submitted to SACOG's PLCG used to support its concurrence, as well as concurrence letters from EPA and Caltrans that the project is not a POAQC.

The approved PM2.5 SIP has no control measures applicable to the project. Therefore, a written commitment to implement control measures is not required.

The NEPA document for this project identifies the following mitigation, minimization, or avoidance measures related to PM10 and/or PM2.5:

- 1. Implement California Department of Transportation Standard Specification Section 14.
- 2. Implement Additional Control Measures for Construction Emissions of Fugitive Dust.

Approval of the NEPA document for this project will be considered a written commitment to implement the identified PM10 and/or PM2.5 control measures.

The approved MTP/SCS and MTIP for the project area have no PM mitigation or control measures that relate to the project's construction or operation. Therefore, a written commitment to implement PM control measures is not required.

3.3 Construction-Related Hot-Spot Emissions

40 CFR 93.123(c)(5) states the following.

CO, PM10, and PM2.5 hot-spot analyses are not required to consider construction-related activities which cause temporary increases in emissions. Each site which is affected by construction-related activities shall be considered separately, using established 'Guideline' methods. Temporary increases are defined as those which occur only during the construction phase and last five years or less at any individual site.

Construction of the entire project is expected to require 2 years, therefore construction activities in one general location would occur for fewer than 5 years. Accordingly, construction-related emissions related to the project are not considered in the project-level or regional conformity analysis.

Chapter 4 References

- Benson, Paul. 1984, revised 1989. CALINE4—A Dispersion Model for Predicting Air Pollutant Concentrations Near Roadways. Sacramento, CA: California Department of Transportation.
- California Air Resources Board. 2015. Aerometric Data Analysis and Management System (ADAM): Top 4 Summary. Available: < http://www.arb.ca.gov/adam/topfour/topfour1.php>. Accessed: November 4, 2015.
- Federal Highway Administration and U.S. Environmental Protection Agency. 2006. Transportation Conformity Guidance for Qualitative Hot-Spot Analyses in PM2.5 and PM10 Nonattainment and Maintenance Areas. EPA420-B-06-902. March.
- Fehr & Peers. 2015. State Route 65 Capacity and Operational Improvements Transportation Analysis Report. September 2015.
- Garza, V. J., P. Graney, and D. Sperling. 1997. Transportation Project-Level Carbon Monoxide Protocol. Davis, CA: Institute of Transportation Studies, University of California, Davis.
- U.S. Environmental Protection Agency. 2014. Air Data. Monitor Values Report. Last Revised: October 8, 2014. Available: http://www.epa.gov/airdata/ad_rep_mon.html. Accessed: September 1, 2015.
- U.S. Environmental Protection Agency. 2010. Transportation Conformity Guidance for Quantitative Hot-spot Analyses in PM2.5 and PM10 Nonattainment and Maintenance Areas. EPA-420-B-13-05. December.
- U.S. Environmental Protection Agency. 2015. Transportation Conformity Guidance for Quantitative Hot-spot Analyses in PM2.5 and PM10 Nonattainment and Maintenance Areas. EPA-420-B-15-084. November.
- U.S. Environmental Protection Agency. 2016. Nonattainment Areas for Criteria Pollutants (Green Book). Last Revised: September 22, I. Available: < https://www.epa.gov/greenbook>. Accessed: October 3, 2016.

Transportation Air Quality Conformity Findings Checklist

FIU	ect Name:	SR 65 Capacity and O	perational Improvements F	Project			
Dist	-Co-Rte-PM:	03-PLA-65 PM R6.2 t	o R12.			EA:	EA 03-1F170
Fede	eral-Aid No.:	EA 03-1F170					
Doc	ument Type:	🔀 23 USC 326 CE	23 USC 327 CE	🗌 EA	🗌 EIS		
Step PM2	 Step 1. Is the project located in a nonattainment or maintenance area for ozone, nitrogen dioxide, carbon monoxide (CO), PM2.5, or PM10 per EPA's Green Book listing of non-attainment areas? ☐ If no, go to Step 17. Transportation conformity does not apply to the project. ☑ If yes, go to Step 2. 						
 Step 2. Is the project exempt from conformity per <u>40 CFR 93.126</u> or <u>40 CFR 93.128</u> If yes, go to Step 17. The project is exempt from all project-level conformity requirements (40 CFR 93.126 or 128) (check one box below and identify the project type, if applicable). 40 CFR 93.126 Project type: 40 CFR 93.128 If no go to Step 3 							
Step	3. Is the project	t exempt from regiona	I conformity per 40 CFR 93	3.127			
	f yes, go to Step project type).	8. The project is exe Project type:	mpt from regional confo	rmity requirer	nents (40 CFR	8 93.127) (identify the
	ir no, go to Step 4	+. 	:				
Step	54. Is the projection	ct located in a region w	/ith a currently conforming	RTP and TIP?	CED 02 115	The preie	ot's design and
	scope have not to Step 8.	changed significant	y from what was assume	ed in RTP con	formity analys	sis (40 CF	R 93.115[b]) Go
	f no and the proj	ect is located in an iso	lated rural area, go to Step	5.			
	f no and the proj adopted.	ect is not located in an	isolated rural area, STOP	and do not pr	oceed until a co	onforming	RTP and TIP are
Step Cons	5. For isolated sultation?	rural areas, is the proj	ect regionally significant p	er 40 CFR 93.′	101, based on r	review by I	nteragency
	If no, go to Step				onally signific	ant and d	oos not roquiro
1	a regional emis	8. The project, locate sions analysis (40 Cl	ed in an isolated rural ar FR 93.101 and 93.109[l]).	ea, is not regi	onuny orginite		loes not require
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 $^{^{1}}$ The analysis must support this conclusion before going to the next step.

² Use of the CO Protocol is strongly recommended due to its use of screening methods to minimize the need for modeling. When modeling is needed, the Protocol simplifies the modeling approach. Use of CAL3QHCR must follow U.S. EPA's latest CO hot spot guidance, using EMFAC instead of MOVES; see: http://www.epa.gov/otaq/stateresources/transconf/projectlevel-hotspot.htm#co-hotspot.

³ As of October 1, 2007, there are no CO nonattainment areas in California. Therefore, the requirements to not worsen existing violations and to reduce/eliminate existing violations do not apply.

	Rev. June		
Step 10. Is the pro	ject considered to be a Project of Air Quality Concern (POAQC), as described in EPA's		
Transportation Con	formity Guidance for PM 10 and PM 2.5?		
If no, the proje 93.123 and EP <u>August 9, 2010</u>	ect is not a project of concern for PM10 and/or PM2.5 hot-spot analysis based on 40 CFR 93.116 and A's Hot-Spot Analysis Guidance. Interagency Consultation concurred with this determination on <u>6</u> . Go to Step 12.		
If yes, go to Ste	p 11.		
Step 11. The project is a and EPA's Hot PM hot-spot a project would Go to Step 12.	ct is a POAQC. a project of concern for PM10 and/or PM2.5 hot-spot analysis based on 40 CFR 93.116 and 93.123, t-Spot Guidance. Interagency Consultation concurred with this determination on Detailed nalysis, consistent with 40 CFR 93.116 and 93.123 and EPA's Hot-Spot Guidance, shows that the not cause or contribute to, or worsen, any new localized violation of PM10 and/or PM2.5 standards.		
Step 12. Does the and has a written co measures? [(Contr http://www.epa.gov/	e approved PM SIP include any PM10 and/or PM2.5 control measures that apply to the project, ommitment been made as part of the air quality analysis to implement the identified SIP control ol measures can be found in the applicable Federal Register notice at: /otaq/stateresources/transconf/reg9sips.htm#ca.]		
through const	ruction or operation of this project (40 CFR 93.117). Go to Step 14.		
) IS.		
design concept and	bject-level mitigation or control measures for CO, PM10, and/or PM2.5, included as part of the project's silved been identified as a condition of the RTP or TIP conformity determination? AND/OR		
Step 13b. Are proje document?	ect-level mitigation or control measures for CO, PM10, and/or PM2.5 included in the project's NEPA		
AND			
Step 13c (applies of quality analysis to in	only if Step 13a and/or 13b are answered "yes"). Has a written commitment been made as part of the air mplement the identified measures?		
If yes to 13a and measures for to control measu conformity det	d/or 13b and 13c, a written commitment is made to implement the identified mitigation or control CO, PM10, and/or PM2.5 through construction or operation of this project. These mitigation or ures are identified in the project's NEPA document and/or as conditions of the RTP or TIP termination ¹ (40 CFR 93.125(a)). Go to Step 14.		
If no, go to Step	0.14		
Step 14. Does the 23 USC 326 and is this form? ⁵	project qualify for a 771.117(c)(22), (c)(23), (c)(26), (c)(27), or (c)(28) ⁴ Categorical Exclusion pursuant to an Air Quality Conformity Analysis required to document any analysis required by Steps 1 through 13 of		
If yes, then Caltrans prepares the Air Quality Conformity Analysis and makes the conformity determination. No FHWA involvement is required. See the <u>AQCA Annotated Outline</u> . Go to Step 17.			
Sten 15 Does the	project quality for any Categorical Exclusion pursuant to 23 USC 326 (including 771 117(c)(22) (c)(23)		
(c)(26), (c)(27), or (c)(27)	c)(28) when NO Air Quality Conformity Analysis is required)?		
the CE form. An A	ir Quality Conformity Analysis (AQCA) is not needed. Go to Step 17.		
If no, go to Step	o 16.		
Step 16. Does the If yes, then Cal needed. See	project require preparation of a Categorical Exclusion, EA, or EIS pursuant to 23 USC 327? Itrans submits a conformity determination to FHWA for FHWA's conformity determination. An AQCA is the <u>AQCA Annotated Outline</u> .		
Go to Step 17			
Step 17. STOP as all air quality conformity requirements have been met.			
Cimerture	thanna Varda		
Signature:			
Title:	Air Quality Climate Change and Noise Project Manager		
	and granty, similar onlinge, and noise i reject hundger		

⁴ Please note that certain activities covered by these categorical exclusions may require that Caltrans prepare an Air Quality Conformity Analysis rather than documenting the conformity determination with the Senior Environmental Planner's signature on the Categorical Exclusion form.

⁵ Please note that for ALL projects the project file must include evidence that one of the three following situation applies: 1) Conformity does not apply to the project area; or 2) The project is exempt from all conformity analysis requirements; or 3) The project is subject to project-level conformity analysis (and possibly regional conformity analysis) and meets the criteria for a conformity determination. The project file must include all supporting documentation and this checklist.
Appendix B. Ozone, CO, and PM2.5 Nonattainment Maps

California 8-hour Ozone Nonattainment Areas (2008 Standard)



California PM-2.5 Nonattainment Areas (2006 Standard)



Oregon



Appendix C. Documentation Related to Regional Conformity

Regional Emissions Analysis Conducted for Conforming RTP

The regional emissions analysis found that regional emissions will not exceed the SIP's emission budgets for mobile sources in the build year, a horizon year at least 20 years from when conformity analysis started, and additional years meeting conformity regulation requirements for periodic analysis. The regional emissions analysis was based on the latest population and employment projections for the Sacramento Region, including Sacramento, Sutter, Yolo, and Yuba Counties, and in El Dorado and Placer Counties outside of the Tahoe Basin, that were adopted by the SACOG at the time the conformity analysis was started in 2015. These assumptions are less than five years old. The modeling was conducted using current and future population, employment, traffic, and congestion estimates. The traffic data, including the fleet mix data, were based on the most recently available vehicle registration data included in the EMFAC model. EMFAC2011 was used, which was the most recent version of the model developed by the California Air Resources Board and approved for use in California by the U.S. EPA at the time of the analysis.¹

Public and Interagency Consultation Process for TIP

The federal MTIP was developed in accordance with SACOG's policies for community input and interagency consultation procedures. These procedures ensure that the public has adequate opportunity to be informed of the federal MTIP development process and encourages public participation and comment. The MTIP, Amendment #20, was circulated for public review between September 17, 2015 and November 16, 2015. SACOG did not receive any comments on Amendment #20 or on the Air Quality Conformity Analysis.

¹ EMFAC2014 was approved by EPA on December 14, 2015, with a 24-month grace period for conversion from EMFAC 2011 to EMFAC 2014. As the air quality analysis was completed prior to EPA's approval of EMFAC2014 and falls within their 24-month grace period before EMFAC2014 is required, EMFAC2011 is used in this analysis.

Appendix D. MTP and MTIP Project Listing and Federal Approval Letters



2016 Metropolitan Transportation Plan/ Sustainable Communities Strategy BUILDING A SUSTAINABLE SYSTEM





Sacramento Area Council of Governments

Adopted February 18, 2016

1415 L Street, Suite 300 Sacramento, CA 95814 tel: 916.321.9000 fax: 916.321.9551 tdd: 916.321.9550 www.sacog.org



February 18, 2016

Bruce De Terra, Division Chief Office of Federal Transportation Management Program Division of Transportation Programming, MS 82 Department of Transportation P.O. Box 942784 Sacramento, CA 94274-0001

Attention: Dennis Jacobs

Dear Mr. De Terra:

Please accept for your review and approval Amendment #20 to the 2015/18 Metropolitan Transportation Improvement Program (MTIP). In addition, SACOG requests that you transmit your findings to FHWA and FTA for their final review and approval.

Amendment #20 is a "Type 5" amendment, which is an amendment that requires a conformity determination and a new regional emissions analysis. Amendment #20 updates the MTIP to be consistent with the newly adopted Metropolitan Transportation Plan/Sustainable Communities Strategy (MTP/SCS). Today the Board approved both Amendment #20 to the MTIP and the 2016 update to the MTP/SCS. In doing so, SACOG adds, deletes, and changes non-exempt, regionally significant projects in the 2015/18 MTIP and MTP/SCS, requiring a new conformity determination and new regional emissions analysis. For these reasons, Amendment #20 is accompanied by a new conformity determination and regional emissions analysis performed on both the MTP/SCS and Amendment #20 to the 2015/18 MTIP.

Amendment #20 is consistent with the metropolitan transportation planning regulations per 23 Code of Federal Regulations Part 450, and also with the adopted MTP/SCS. Amendment #20 remains financially constrained and the enclosed financial summary in Section 6 affirms that funding is available. Amendment #20 does not affect air quality conformity, and, therefore, complies with the applicable air quality standards. Amendment #20 does not interfere with the timely implementation of the Transportation Control Measures contained in the State Implementation Plan. Finally, SACOG amended the MTIP in accordance with its Public Participation Plan and did not receive comments.

Thank you in advance for your attention to this matter. Any questions that you may have should be directed to José Luis Cáceres at (916) 340-6218.

Sincerely,

Kine Wene-oki

Renée DeVere-Oki Team Manager Programming and Project Delivery Enclosures

Citrus Heights Colfax Davis El Dorado County Elk Grove Folsom Galt Isleton Lincoln Live Oak Loomis Marysville Placer County Placerville Rancho Cordova Rocklin Roseville Sacramento Sacramento County Sutter County West Sacramento Wheatland Winters Woodland Yolo County

Yuba City Yuba County

Auburn

Sacramento Area Council of Governments 1415 L Street, Suite 300 Sacramento, CA 95814 tel: 916.321.9000 fax: 916.321.9551 tdd: 916.321.9550 www.sacog.org



cc: Stew Sonnenberg, Federal Highway Administration Jerome Wiggins, Federal Transit Administration Karina O'Connor, Environmental Protection Agency

Davis El Dorado County Elk Grave Folsom Galt Isleton Lincoln Live Oak

Auburn Citrus Heights Colfax

Live our

Loomis

Marysville

Placer County

Placerville

Rancho Cordova

Rocklin

Roseville

Sacramento

Sacramento County

Sutter County

West Sacramento

Wheatland

Winters

Woodland

Yolo County

Yuba City

Yuba County

Appendix B: Non-Exempt Project Listing 7 of 20

								Co	onformit	y Year	Model	ing		
Project ID	COUNTY	LEAD AGENCY	TITLE	PROJECT DESCRIPTION	TOTAL COST	Completion	2017	2018	2022	2024	2026	2027	2036	MTIP or
				In Rocklin; Between SR 65 (PM 4.5) and Rocklin Rd. (PM	(2015 Dollars)	Year								MIP
				5.9); Construct eastbound I-80 auxiliary lane, including two-										
			I-80 Eastbound Auxiliary Lane: SR 65 to	lane off-ramp, concrete barrier/retaining walls, and shoulder					х	X	x	х	х	
PLA25519	Placer	PCTPA	Rocklin Rd.	improvements. (Toll credits for PE, ROW, and CON)	\$4,990,000	2019								MTIP
				In Roseville: Between east of Douglas Bivd. off-ramp to west										
				(PL A25542) to the east and west to create continuous 5th										
				ane on westbound I-80. The Douglas Boulevard off - ramp					х	Х	х	х	Х	
				would be reduced from a 2 - lane off - ramp to a 1 - lane										
PLA25576	Placer	PCTPA	I-80 Westbound 5th Lane	off - ramp.	\$3,700,000	2020								MTIP
				In Roseville: Between Douglas Blvd. (PM 2.0) and Riverside										
			I-80 Westbound Auxiliary Lane - Douglas Blvd.	Ave. (PM 0.2); Construct westbound I-80 auxiliary lane and					х	х	х	х	х	
PLA25542	Placer	PCTPA	to Riverside Ave.	shoulder improvements. (Toll credits for PE, ROW, and CON)	\$5,910,000	2019								MTIP
				Ranch Rd.; Reconfigure I-80/SR 65 interchange to widen										
				northbound SR 65 from 2 to 3 lanes, including widening										
				Galleria Boulevard/Stanford Ranch Road northbound off-										
				ramp and on-ramp, and southbound on-ramp (PA&ED,					~	v	v	~	~	
				PS&E, ROW, and CON to be matched with Toll Credits)					x	x	x	x	x	
				SHOPP funding (EA 03-0H260) for auxiliary lane on										
DI A25440	Diagon	DOTDA	1-80/SR 65 Interchange Improvements Phase	Northbound SR 65 between 1-80 and Galleria	¢27 000 700	2022								MTID
PLA25440	Flacel	FUIFA	IA	In Placer County: Between Galleria Boulevard/Stanford	\$37,099,700	2022								WITT
				Ranch Road and Pleasant Grove Boulevard; Reconfigure I-										
				80/SR 65 interchange to widen northbound SR 65 from 2 to 3					х	х	х	х	х	
			I-80/SR 65 Interchange Improvements Phase	lanes, and widen I-80 westbound to SR 65 northbound ramp										
PLA25648	Placer	PCTPA	1B	from 1 to 2 lanes.	\$17,500,000	2022								MTIP
			L 90/SB 65 Interchange Improvemente Dhase	In Placer County: Between I-80 and Pleasant Grove					v		v	~	~	
DI A25640	Placer	DOTDA	1-80/SR 65 Interchange Improvements Phase	Boulevard; Reconligure 1-80/SR 65 Interchange to widen	\$11 500 000	2022			x	X	x	x	X	MTID
FLA23049	FIACEI	FUIFA		In Placer County: Between Douglas Blvd. and Rocklin Road;	\$11,500,000	2022								WITTE
				Reconfigure I-80/SR 65 interchange to widen southbound to										
				eastbound ramp from 1 to 2 lanes, and replace existing									х	
				eastbound to northbound loop ramp with a new 3 lane direct										
PLA25601	Placer	PCTPA	I-80/SR 65 Interchange Improvements Phase 2	flyover ramp.	\$110,000,000	2036								MTP
				Widen Taylor Road from 2 to 4 lanes between Roseville										
				Parkway and Pacific Street, and Reconfigure I-80/SR 65									v	
				interchange to widen the southbound to westbound ramp									^	
PLA25602	Placer	PCTPA	I-80/SR 65 Interchange Improvements Phase 3	from 2 to 3 lanes.	\$179,000,000	2036								MTP
				In Placer County: Between Douglas Blvd. and Rocklin Road;										
				Reconfigure I-80/SR 65 interchange to construct one lane										
				HOV direct connectors from eastbound to northbound and									х	
DI ADEGOD	Diagon	DOTDA	L 90/SB 65 Interchange Improvemente Dhase 4	southbound to westbound (HOV lanes would extend to	¢05 000 000	2026								MTD
FLA23003	FIACEI	FUIFA	1-00/31 03 Interchange Improvements Phase 4	SR 65, from Galleria Blvd. to Lincoln Blvd., make capacity	\$95,000,000	2030								IVITE
				and operational improvements. Phase 1: From Galleria Blvd.										
				to Pleasant Grove Blvd., construct auxiliary lanes on					х	Х	х	х	Х	
			SR 65 Capacity & Operational Improvements	northbound and southbound SR 65, including widening										
PLA25529	Placer	PCTPA	Phase 1	Galleria Blvd. southbound off-ramp.	<mark>\$16,520,000</mark>	2020								MTIP
				and operational improvements. Phase 2: From Galleria Blvd										
				to Blue Oaks Blvd., widen from 4 to 7 lanes with 1 carpool									x	
			SR 65 Capacity & Operational Improvements	lane and 1 general purpose lane southbound, and 1 lane as									^	
PLA25637	Placer	PCTPA	Phase 2	general purpose northbound.	\$32,500,000	2036								MTP
				SR 65, from Galleria Blvd. to Lincoln Blvd., make capacity										
			CD CC Connection of Linear Lin	and operational improvements. Phase 3: From Blue Oaks									х	
DI ASECO	Placer	DCTDA	Bhase 2	Bive, to Lincoln Bive, construct auxiliary lanes both	¢12,000,000	2020								MTD
FLA20038	riacer	FUIFA	Thase S	Auburn Ravine Road overcrossing over I-80 between	φ12,000,000	2036								WILF'
				Bowman Road to Lincoln Way: widen overcrossing from 2 to									x	
PLA15070	Placer	Placer County	Auburn Ravine Road at I-80 Overcrossing	4 lanes.	\$29,000,000	2036								MTP
				From Placer / Sacramento County line to Douglas Blvd, :										
	<u>_</u> .			Widen to 4 lanes. Install signal at Auburn-Folsom Blvd and	A		Х	х	Х	х	Х	Х	х	
PLA15080	Placer	Placer County	Auburn-Folsom Rd Widening	Fuller Dr.	\$28,300,000	2015								MTIP
PL A 20680	Placer	Placer County	(Fast Portion)	Fiddyment/Walerga Road	\$11 270 000	2036							Х	MTP
			\		÷.1,210,000	2000								



Administration

California Division

March 8, 2016

650 Capitol Mall, Suite 4-100 Sacramento, CA 95814 (916) 498-5001 (916) 498-5008 (fax)

> In Reply Refer To: HDA-CA

Mr. Bruce de Terra Chief Division of Transportation Programming California Department of Transportation 1120 N Street, M.S. 82 Sacramento, CA 92814

Attention:	Muhaned Aljabiry, Chief Office of Federal Transportation Management Program
SUBJECT:	Conformity Determination for SACOG's Metropolitan Transportation Plan/ Sustainable Communities Strategy (MTP/ SCS) and the SACOG FY 2015 - 2018 MTIP/ FSTIP Amendment #20

Dear Mr. de Terra:

The Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA) have completed our review of the Sacramento Area Council of Government's (SACOG) FY 2015 - 2018 Metropolitan Transportation Improvement Program (MTIP) Amendment #20 submitted by your letter dated February 25, 2016. SACOG adopted Amendment #20 with Resolution No. 03-2016 on February 18, 2016. This amendment proposes to modify the scope, completion year, and/ or amount of funding for 29-projects with a net increase in funding of approximately \$64.7 million.

The conformity analysis submitted to the FHWA/ FTA by SACOG indicates that all air quality conformity requirements have been met. In accordance with the December 15, 2014, Memorandum of Understanding (MOU) between the Federal Highway Administration, California Division and the Federal Transit Administration, Region IX, the FTA has concurred with this conformity determination. Additionally, this finding has been coordinated with Region 9 of the Environmental Protection Agency (EPA) in accordance with the procedures outlined in the National Memorandum of Understanding between DOT and EPA on Transportation Conformity, dated April 25, 2000. Therefore, we find that SACOG's FY 2015 - 2018 MTIP through Amendment #20 continues to conform to the applicable State Implementation Plan (SIP) in accordance with the provisions of 40 CFR Parts 51 and 93.

We accept the revisions to the FY 2015 - 2018 FSTIP for the SACOG region in accordance with the Final Rule on Statewide and Metropolitan Transportation Planning published in the February 14, 2007 Federal Register. We find that the SACOG FY 2015 - 2018 MTIP, including Amendment #20, was developed through a continuing, cooperative, comprehensive

transportation planning process in accordance with 23 U.S.C. §134 and 49 U.S.C. Chapter 53. The FTA Region IX office has concurred with the approval of this amendment.

Based upon our review, we find the MTIP financial constraint documentation submitted with this amendment is financially constrained as required by the Federal surface transportation programs authorizing legislation and statewide and metropolitan planning and programming regulations. In accordance with the above MOU with FTA, the FHWA's single signature constitutes FHWA and FTA's joint air quality conformity determination for the SACOG's MTP/ SCS and the 2015 - 2018 MTIP. Accordingly, FHWA and FTA approve this amendment in accordance with 23 CFR 450. This letter also constitutes approval and inclusion of SACOG's 2015 MTIP Amendment #20 into California's 2015 FSTIP.

If you have any questions regarding this action, please call Stew Sonnenberg at (916) 498-5889, or by email at <u>stew.sonnenberg@dot.gov</u>, or Jerome Wiggins at (415) 744-2819, or by email at jerome.wiggens@dot.gov.

Sincerely,

/s/ Leslie T. Rogers

Leslie T. Rogers Regional Administrator Federal Transit Administration

For: Vincent P. Mammano Division Administrator Federal Highway Administration

Appendix E. Carbon Monoxide Hot-Spot Analysis Modeling Procedures

The ambient air quality effects of traffic emissions related to the SR 65 Capacity and Operational Improvements Project were evaluated using the CALINE4 dispersion model (Benson 1989) and the modeling procedures described below. These procedures are based on Appendix B of the California Department of Transportation (Caltrans)/University of California, Davis CO Protocol.

E.1 Roadway and Traffic Conditions

Traffic volumes and operating conditions used in the modeling were obtained from the traffic analysis prepared for this project. Carbon monoxide (CO) modeling was conducted using p.m. traffic volumes. The peak hour used was chosen to represent the most stable meteorological conditions.

CO modeling was performed for the following scenarios.

- 1. Existing (2012).
- 2. Construction Year (2020) with project (build).
- 3. Design Year (2040) with project.

Traffic data provided by Fehr & Peers (2015) indicates that peak-period volumes and delay at the affected intersections would typically be highest under p.m. peak hour conditions. Accordingly, CO concentrations were modeled for p.m. peak hour conditions to evaluate the highest potential CO impacts of build alternatives (scenarios #2 and #3).

E.2 Vehicle Emission Rates

Vehicle emission rates were determined using the California Air Resources Board's EMFAC2011 emission rate program. Free flow traffic speeds were adjusted to a speed of 5.0 miles per hour (mph) for vehicles entering and exiting intersection segments to represent a worst-case scenario, as 5 mph is the lowest speed EMFAC allows. EMFAC2011 modeling procedures followed the guidelines recommended by Caltrans. The program assumed Placer County regional traffic data, averaged for each subarea, operating during the winter months. An average January temperature of 6.8° C was assumed.

E.3 Receptor Locations

CO concentrations were estimated at four receptor locations located near the most congested intersections affected by the project.

- Galleria Boulevard/Roseville Parkway
- I-80 eastbound off-ramp/Eureka Road/Taylor Road/Atlantic Street
- Sunrise Avenue/Douglas Boulevard
- Rocklin Road/Granite Drive

Receptors were chosen based on Caltrans' CO Protocol. Figure 2 shows the modeling network and receptors used for the proposed interchange analysis. Receptor heights were set at 5.9 feet (1.8 meters). U.S. Environmental Protection Agency modeling guidance suggests that receptors normally be chosen to be around breathing height (1.8 meters).

E.4 Meteorological Conditions

Meteorological inputs to the CALINE4 model were determined using the methodology recommended in the CO Protocol (Garza et al. 1997). The meteorological conditions used in the modeling represent a calm winter period. The worst-case wind angles option was used to determine a worst-case concentration for each receptor. The meteorological inputs are listed below.

- 1. 0.5 meters per second wind speed (1.64 feet per second) wind speed.
- 2. G stability class ground-level temperature inversion.
- 3. 15 degree wind direction standard deviation.
- 4. 1,000 meter mixing height.

E.5 Background Concentrations and Eight-Hour Values

A background concentration of 1.93 parts per million (ppm) was added to the modeled 1-hour values to account for sources of CO not included in the modeling. Eight-hour modeled values were calculated from the 1-hour values using a persistence factor of 0.7. A background concentration of 1.45 ppm was added to the modeled 8-hour values. All background concentration data were taken from the North Highlands-Blackfoot Way monitoring station from 2012 through 2014 (California Air Resources Board 2015; U.S. Environmental Protection Agency 2014).

The CO air quality modeling results are shown in Table 9.



			1-H	our CO C	oncentra	tions ^ь (p	pm)			8-Ho	our CO C	oncentra	tions ^c (p	om)	
			Construction Year (st- Car- Gen.			Desi	gn Year (2	2040)		Constru	ction Yea	r (2020)	Desig	gn Year (2	2040)
Intersection	Rec.ª	Exist- ing (2012)	Car- pool Lane Alt.	Gen. Purp. Lane Alt.	No Build Alt.	Car- pool Lane Alt.	Gen. Purp. Lane Alt.	No Build Alt.	Exist- ing (2012)	Car- pool Lane Alt.	Gen. Purp. Lane Alt.	No Build Alt.	Car- pool Lane Alt.	Gen. Purp. Lane Alt.	No Build Alt.
	1	6.03	4.13	4.13	4.13	2.93	2.93	2.83	4.32	2.99	2.99	2.99	2.15	2.15	2.08
Galleria Blvd./	2	5.63	3.93	3.93	3.93	2.83	2.83	2.83	4.04	2.85	2.85	2.85	2.08	2.08	2.08
Roseville Pkwy.	3	5.73	4.03	4.03	4.03	2.93	2.93	2.93	4.11	2.92	2.92	2.92	2.15	2.15	2.15
	4	5.73	3.93	3.93	4.03	2.93	2.93	3.03	4.11	2.85	2.85	2.92	2.15	2.15	2.22
I-80 EB Offramp/	5	5.23	3.73	3.73	3.73	2.83	2.83	2.83	3.76	2.71	2.71	2.71	2.08	2.08	2.08
Eureka Rd/	6	5.33	3.63	3.63	3.63	2.73	2.73	2.73	3.83	2.64	2.64	2.64	2.01	2.01	2.01
Taylor Rd/	7	5.03	3.53	3.43	3.63	2.83	2.83	2.73	3.62	2.57	2.50	2.64	2.08	2.08	2.01
Atlantic St.	8	5.73	4.03	4.03	4.03	3.03	3.03	2.93	4.11	2.92	2.92	2.92	2.22	2.22	2.15
	9	6.13	3.93	3.93	3.93	2.93	2.93	2.93	4.39	2.85	2.85	2.85	2.15	2.15	2.15
Sunrise Ave./	10	5.03	3.43	3.43	3.43	2.63	2.63	2.63	3.62	2.50	2.50	2.50	1.94	1.94	1.94
Douglas Blvd.	11	5.33	3.63	3.63	3.63	2.73	2.63	2.73	3.83	2.64	2.64	2.64	2.01	1.94	2.01
	12	5.73	3.73	3.73	3.73	2.73	2.73	2.73	4.11	2.71	2.71	2.71	2.01	2.01	2.01
	13	4.73	3.73	3.73	3.73	2.73	2.73	2.73	3.41	2.71	2.71	2.71	2.01	2.01	2.01
Rocklin Rd./	14	4.13	3.23	3.23	3.33	2.63	2.63	2.63	2.99	2.36	2.36	2.43	1.94	1.94	1.94
Granite Dr.	15	3.93	3.13	3.13	3.13	2.53	2.53	2.53	2.85	2.29	2.29	2.29	1.87	1.87	1.87
	16	4.23	3.43	3.43	3.43	2.63	2.63	2.63	3.06	2.50	2.50	2.50	1.94	1.94	1.94
State Standard (ppm) 20 20 20 20					20	20	20	9.0	9.0	9.0	9.0	9.0	9.0	9.0	
Federal Standard (p	opm)	35	35	35	35	35	35	35	9	9	9	9	9	9	9

Table E-1. CO Modeling Results (in Parts Per Million)

^a Consistent with Caltrans CO Protocol, receptors are located at 3 meters from the intersection, at each of the four corners to represent the nearest location in which a receptor could potentially be located adjacent to a travelled roadway. The modeled receptors indicated in Table 9 (Receptors 1-16) are not representative of the actual sensitive receptors indicated in Figure 2. All intersections modeled have two intersecting roadways.

^b Average 1-hour background concentration between 2012 and 2014 was 1.93 ppm (California Air Resources Board 2015b).

^c Average 8-hour background concentration between 2012 and 2014 was 1.45 ppm (U.S. Environmental Protection Agency 2014).

CO = carbon monoxide; ppm = parts per million; EB = eastbound

Appendix F. CO Modeling Data and Output Reports

Region Typ	pe: County												
Region: Pla	acer												
Calendar Y	/ear: 2012												
Season: W	'inter												
Vehicle Cla	assification: EMFAC	2011 Categories	;										
Region	CalYr Season	Veh Class F	uel MdlYr	Speed	VMT	ROG RUNI	TOG RUNI	CO RUNEX	NOX RUNE	CO2 RUNE	CO2 RUNE	PM10 RUM	PM2 5 RUNEX
0		-		(miles/hr)	(miles/day	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)
Placer	2012 Winter	LDA (GAS Aggregate	(5	1787.465	0.259841	0.356084	3.47548	0.255451	1072.355	1010.72	0.012445	0.011327
Placer	2012 Winter	LDA [OSL Aggregate	c 5	7.562396	0.171281	0.194992	1.268236	1.141819	432.0839	397,5908	0.123489	0.11361
Placer	2012 Winter	LDT1 (GAS Aggregate	c 5	252.0735	0.606338	0.774473	8.078247	0.605356	1243.601	1173.304	0.023764	0.02156
Placer	2012 Winter	LDT1 [OSL Aggregate	c 5	0.264174	0.279219	0.317872	1.667315	1,187555	436.291	397.3121	0.235638	0.216787
Placer	2012 Winter	LDT2 0	GAS Aggregate	c 5	725,5092	0.267629	0.389139	3.932171	0.472851	1471.01	1407.138	0.012045	0.011031
Placer	2012 Winter	IDT2 [)SI Aggregate	· -	0 250238	0 257803	0 293491	1 56748	1 371712	424 4659	396 942	0 213379	0 196309
Placer	2012 Winter	1HD1 0	GAS Apprepate	, 5 (5	10520.96	0.850756	0.969321	10 30109	0 567364	2513 497	2500.93	0.011564	0.010666
Placer	2012 Winter	IHD1 [SI Aggregate	, 5 (5	6276 477	0 599793	0.682824	3 690851	7 552268	524 1788	521 5579	0 125885	0 115814
Placer	2012 Winter	LHD2 0	GAS Apprepate	, 5 (5	794 1564	0 602448	0.695036	9 662195	0 403893	2513 497	2500.93	0.009421	0.008425
Placer	2012 Winter 2012 Winter		SI Aggregate	(5	1262.65	0.002440	0 564145	3 243424	6 731915	521.457	519 191	0.107326	0.000425
Placer	2012 Winter	MCV (· 5	20 60706	5 202/25	5 9058/1	35 64708	1 280/10	2/0 5/50	2/18 2081	0.001768	0.001/08
Placer	2012 Winter 2012 Winter	MDV 0	SAS Aggregate	(5	701 3501	0 388751	0 57612	5 352142	0 715083	1867 75	1809 963	0.001700	0.001400
Placer	2012 Winter 2012 Winter	MDV [SI Aggregate	(5	0 571929	0.142318	0.16202	0 94873	0.760802	463 5335	442 2013	0.013012	0.109308
Placer	2012 Winter 2012 Winter	MH ((5	289 2822	1 624138	1 871303	36 16488	0.996462	2513 497	2500.93	0.017286	0.01535
Placer	2012 Winter 2012 Winter	мн г	SI Δøgregate	(5	67 23698	1 733289	1 973235	2 603248	20 23608	2313.457	2365 152	0.638626	0.587536
Placer	2012 Winter 2012 Winter	Motor Con [· 5	12 20506	6 472592	7 269542	11 25/01	27 10751	4015 20	2005 212	1 09/207	0.907645
Placer	2012 Winter 2012 Winter			() ()	116 1204	0.472382	1 102120	12 0225	1 105026	2512 /07	2500.02	0.004337	0.997043
Placer	2012 Winter 2012 Winter	SBUS ((5 (5	1/ 05158	6 832181	7 515106	113 /060	3 037/38	2513.457	2500.55	0.004323	0.0033333
Placer	2012 Winter 2012 Winter	SBUS F		(5 (5	17 5/6/5	1 127373	5.040227	5 /0/886	30 30737	2625 474	2500.55	1 376329	1 266222
Placer	2012 Winter 2012 Winter	T6 Δσ Γ		(5 (5	30 83015	5 9/0001	6 762227	7 37861	27 06914	2623.474	2618 585	1.6/2527	1.51113/
Diacor	2012 Winter			· -	62 15105	2.065272	2 40050	2 005021	27.00314	2031.743	2010.303	1.042337	0.072616
Placer	2012 Winter		Aggregate	() (F	1 165015	2 06404	2 400201	3.963021 4 E19E0E	10 20502	2013.004	2002.725	1.030270	0.975010
Placer	2012 Winter		Aggregate	() (F	2 002200	3.00494	3.469201	4.516595	15.39302	2004.775	2591.749	0.057240	0.004000
Placer	2012 Winter 2012 Winter			() ()	0.669442	2.345047	2.902379	4.02073	10 20592	2002.322	2505.505	0.422023	0.588557
Placer	2012 Winter 2012 Winter	T6 005 cm [() ()	0.008443	2 5/06/7	2 002570	4.516555	15.35302	2004.773	2591.745	0.037240	0.004000
Diacor	2012 Winter	T6 instate.		· -	2.237273	4 902466	2.302373	4.02073	26 2047	2002.322	2565.505	1 24272023	1 225210
Placer	2012 Winter	T6 instate L	Aggregate	() (F	29.55072	4.092400	3.3097	0.495927	10 01102	2000.291	2595.25	0.796456	0.72254
Placer	2012 Winter	T6 instate L	Aggregate	() ()	179 0722	3.332332 1 792126	5 444082	6 25 2102	19.01105	2005.45	2590.455	1 205/22	1 200080
Placer	2012 Winter 2012 Winter	T6 instate L		() ()	102 0210	2 /22202	2 007/16	1 001100	10 00191	2601.140	2554.11	0.752076	0.602729
Placer	2012 Winter 2012 Winter			() ()	2 97/521	1 965515	2 1 2 2 7 4 7	4.334433 3 771293	20 10772	2001.473	2500.400	0.732370	0.092738
Diacor	2012 Winter			· -	156 2500	2.265124	2.123/4/	2.771302	1 711500	2002.047	2365.633	0.010015	0.484798
Placer	2012 Winter	1013 0	Aggregate	() (F	10 07115	0.404757	2.391423	15 05016	1./11500	4055 206	4025 020	0.015215	2 21050
Placer	2012 Winter 2012 Winter			() ()	245.07115	6 00222	7 061274	12 01006	22 70224	4033.300	4033.029	0.796024	0 722070
Placer	2012 Winter 2012 Winter			() ()	9 701616	7 090502	9.060614	12.91990	22 20022	4020.441	4000.338	0.780934	0.725962
Placer	2012 Winter 2012 Winter			() ()	200 706	1 64201	5 295712	9 790516	10 97101	4021.470	2002 /10	0.75565	0.755802
Placer	2012 Winter 2012 Winter			· 5	126 1921	6 992012	7 925672	12 75/2/	22 70224	4002.43	1000 977	0.750215	0.550575
Placer	2012 Winter	T7 othor p(Aggregate	() ()	1 256646	2 272152	2 940079	6 025025	52.70254	4020.962	4000.877	0.759215	0.096476
Placer	2012 Winter 2012 Winter			() ()	16 91024	2 2 2 2 2 1 / 1	2 669162	5 611104	52 0/117	4000.00	4040.337	0.472237	0.454515
Placer	2012 Winter 2012 Winter			() ()	10.01924	5.222141	3.008102	5.011104	033.94117	4004.203	4043.882	0.494374	0.434824
Placer	2012 Winter 2012 Winter	T7 Public D		() ()	26 16502	6 260095	7 1 2 7 6 5 5	10 62705	16 67104	1007 512	4077 025	2 252510	2 165227
Diacor	2012 Winter	T7 Single		· -	116 027	7 757246	0 0 0 1 1 1 0	10.02795	40.07134	4037.313	4077.023	2.333313	1 069955
Placer	2012 Winter	T7 single L	Aggregate	(5 , F	110.037	7.757340	8.831148	12.70552	43.018/3	4029.07	4008.924	2.14006	1.908855
Placer	2012 Winter		Aggregate	() (F	16 20479	1 210212	1 500694	12.20405	42.04322	4025.00	4005.701	0.2000000	0.274052
Placer	2012 Winter	T7 tractor	Aggregate	() (F	140 5050	1.516212	1.300084	10 05632	42.1900	4090.744	4070.29	0.290001	0.274952
Placer	2012 Winter	T7 tractor	Aggregate	() (F	16 70202	11 42254	12.55552	10.05022	40.05604	4030.337	4010.205	2.505742	2.174045
r Iduel	2012 WINTER		Aggregate	· 5	1 17522	2 451104	12.01021	10.0041	47.3348	4015 970	4009.81/	2.301/90	2.330032
Placer	2012 Winter		Aggregate	. 5 , -	12 00024	3.451184	3.92891	3.8/924	30.8190	4015.8/9	3995.799	0.970502	0.098437
Placer	2012 Winter	1/15 (Aggregate	ι 5 , -	13.00931	13.99/11	15.29/2/	232.8801	2.670504	2513.49/	2500.93	0.01313	0.0011155
Placer	2012 Winter	0802 (Aggregate	ι 5 , -	30.5859	4.038265	4.390055	34.92805	2.078504	2013.49/	2500.93	0.005/91	0.0053/3
Placer	2012 Winter		Aggregate	. 5 , -	83.828	1.425044	1.023001	0.152289	20.41997	2401.297	2448.99	0.493018	0.453577
ridcer	ZUIZ WINTER	All Other BL	Jol Aggregate	ι 5	27.0927	4.830098	5.499582	0.4/1855	20.94113	2021.003	2007.898	1.219020	1.121504

EMFAC2011 Emission Rates

EMFAC2011 En	nission Rates															
Region: Discor	ounty															
Region: Placer																
Calendar Year:	2020															
Season: Winter		44 Cata and														
Venicle Classifie	cation: EIVIFAC20	11 Categori	es	M. A. J. Market	Contract											NEV
Region Call	r Season	ven_class	Fuel	Mairr	Speed	VIV	11	ROG_RUNI	TOG_RUNI	CO_RUNEX	NUX_RUNE	CO2_RUNE	CO2_RUNE		PIVI2_5_RU	NEX
					(miles/hr)	(mi	iles/day	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	(gms/mile)	
Placer	2020 Winter	LDA	GAS	Aggregated	5	5	0	0	0	0	0	0	0	0	0	
Placer	2020 Winter	LDA	DSL	Aggregated	5	5	0	0	0	0	0	0	0	0	0	
Placer	2020 Winter	LDT1	GAS	Aggregated	5	5	0	0	0	0	0	0	0	0	0	
Placer	2020 Winter	LDT1	DSL	Aggregated	5	5	0	0	0	0	0	0	0	0	0	
Placer	2020 Winter	LDT2	GAS	Aggregated	5	5	0	0	0	0	0	0	0	0	0	
Placer	2020 Winter	LDT2	DSL	Aggregated	5	5	0	0	0	0	0	0	0	0	0	
Placer	2020 Winter	LHD1	GAS	Aggregated	5	5 11	1857.93	0.357786	0.424995	4.314903	0.294377	2513.497	2262.148	0.005429	0.005033	
Placer	2020 Winter	LHD1	DSL	Aggregated	5	5 69	937.612	0.416407	0.474052	3.130002	4.242457	520.9447	468.8502	0.08764	0.080629	
Placer	2020 Winter	LHD2	GAS	Aggregated	5	5 90	01.6011	0.124053	0.169463	1.830226	0.193557	2513.497	2262.148	0.003255	0.003015	
Placer	2020 Winter	LHD2	DSL	Aggregated	5	5 13	370.218	0.354932	0.404066	2.848973	3.836528	520.0415	468.0373	0.078361	0.072092	
Placer	2020 Winter	MCY	GAS	Aggregated	5	5	0	0	0	0	0	0	0	0	0	
Placer	2020 Winter	MDV	GAS	Aggregated	5	5	0	0	0	0	0	0	0	0	0	
Placer	2020 Winter	MDV	DSL	Aggregated	5	5	0	0	0	0	0	0	0	0	0	
Placer	2020 Winter	MH	GAS	Aggregated	5	5 33	34.3768	0.3192	0.420806	6.352573	0.423125	2513.497	2262.147	0.00561	0.005189	
Placer	2020 Winter	MH	DSL	Aggregated	5	5 74	1.94922	1.509904	1.718925	2.39988	16.10568	2389.476	2150.528	0.414082	0.380956	
Placer	2020 Winter	Motor Coa	a DSL	Aggregated	5	51	15.2852	2.421865	2.757109	4.802255	11.65812	3981.589	3583.43	0.082186	0.075611	
Placer	2020 Winter	OBUS	GAS	Aggregated	5	5 1	L17.014	0.407281	0.501949	5.636887	0.504468	2513.497	2262.147	0.002012	0.001867	
Placer	2020 Winter	SBUS	GAS	Aggregated	5	5 17	7.25806	2.866684	3.219286	39.49084	1.934284	2513.497	2262.147	0.018525	0.017188	
Placer	2020 Winter	SBUS	DSL	Aggregated	5	5 49	9.50327	1.309685	1.490976	1.99049	25.77931	2632.233	2369.01	0.231237	0.212738	
Placer	2020 Winter	T6 Ag	DSL	Aggregated	5	5 41	1.59436	2.313415	2.633647	3.506768	10.12172	2584.145	2325.73	0.367431	0.338037	
Placer	2020 Winter	T6 Public	DSL	Aggregated		5 77	7.98124	0.836999	0.952859	1.39629	12,74817	2603.121	2342,809	0.085679	0.078825	
Placer	2020 Winter	T6 CAIRP I	n DSL	Aggregated	5	5 1.3	391484	1.058776	1.205335	1.856711	6.319983	2573.548	2316,193	0.051007	0.046926	
Placer	2020 Winter	T6 CAIRP	S DSI	Aggregater		5 4	759123	1 084687	1 234833	1 923457	3 571197	2563 519	2307 167	0.043517	0.040036	
Placer	2020 Winter	T6 OOS he	DSL	Aggregated	5	5 0.3	797767	1.058776	1.205335	1.856711	6.319983	2573.548	2316,193	0.051007	0.046926	
Placer	2020 Winter	T6 005 m	n DSI	Apprepater		5 2	728505	1 084687	1 234833	1 923457	3 571197	2563 519	2307 167	0.043517	0.040036	
Placer	2020 Winter	T6 instate	DSL			5 52	2 46013	1 142206	1 300315	1 966523	11 10869	2590 115	2331 103	0.076233	0.070134	
Placer	2020 Winter	T6 instate				5 14	10 1396	1 271995	1 448069	2 255607	4 846698	2568 647	2331.103	0.05841	0.053737	
Placer	2020 Winter	T6 instate	DSI	Aggregater		5 22	2 1 2 7 5	1 13/86/	1 201056	1 96/7//	10 0305	2586 661	2327 005	0.05041	0.064239	
Placer	2020 Winter	T6 instate				5 62	25 0797	1 233637	1 404402	2 187588	4 572565	2567 476	2310 728	0.055152	0.050739	
Placer	2020 Winter	T6 utility	DSI	Aggregater		5 5 1	066328	0.815818	0.9287/6	1 / 3011/	5 767122	2579 588	2321 620	0.035102	0.032377	
Placer	2020 Winter	татс	GAS	Aggrogator		5 10	000320	0.522004	0.520740	7 16767	0 520649	2575.500	2321.023	0.0000102	0.002051	
Placer	2020 Winter	T7 Ag		Aggregate	-	5 51	75546	2 967006	4 402202	7.10/0/	10 57025	4000 421	2202.147	0.003100	0.002551	
Placer	2020 Winter	TTCAIDD		Aggregate	-	- 16	0.2550	3.607000	2 021522	F 20627	0 574062	2064 755	2560 270	0.433343	0.422350	
Placer	2020 Winter			Aggregate	-	5 40	1 20206	2.002913	2 022207	5.30027	0.374002	2065 24	2569 906	0.082333	0.076904	
Placer	2020 Winter			Aggregate		5 20	0.09200	2.005505	3.032207	3.50006	0./1210/ E 014720	2050 504	2562 724	0.063465	0.070804	
Placer	2020 Winter			Aggregatet		- 52	20.0079	2.20505	2.370200	4.514954	0.505720	2004 772	3502.754	0.004999	0.039799	
Placer	2020 Winter	T7 NOUS	DSL	Aggregated	5	- 1/	0.9275	2.661998	3.030482	5.303974	8.585729	3964.772	3568.295	0.083121	0.076471	
Placer	2020 Winter	T7 other p	DSL	Aggregated	5		516091	5.980481	6.808323	11.89675	26.23109	4084.476	36/6.029	0.124146	0.114214	
Placer	2020 Winter	T7 POAK	DSL	Aggregated	5	- 2/	1.65973	5.999852	6.830374	11.93528	26.29847	4085.555	36//	0.124175	0.114241	
Placer	2020 Winter	T7 POLA	DSL	Aggregated	5		0	0	0	0	0	0	0	0	0	
Placer	2020 Winter	I / Public	DSL	Aggregated	5	5 32	2.62586	1.313/96	1.495657	2.431427	32.69859	4088.322	3679.489	0.230158	0.211745	
Placer	2020 Winter	T7 Single	DSL	Aggregated	5	5 15	57.1849	1.955525	2.226216	3.791054	17.84161	4007.021	3606.319	0.100993	0.092914	
Placer	2020 Winter	T7 single o	DSL	Aggregated	5	5 54	1.04502	1.955354	2.226022	3.791188	18.00102	4007.878	3607.09	0.100953	0.092877	
Placer	2020 Winter	T7 SWCV	DSL	Aggregated	5	5 20	0.33016	1.653311	1.882169	3.115672	23.81535	4016.504	3614.854	0.156744	0.144204	
Placer	2020 Winter	T7 tractor	DSL	Aggregated	5	5 20	02.6439	2.825352	3.216448	5.545632	17.48559	3997.189	3597.47	0.117369	0.107979	
Placer	2020 Winter	T7 tractor	DSL	Aggregated	5	5 40).29456	2.853081	3.248016	5.569696	20.0685	4005.44	3604.896	0.129741	0.119362	
Placer	2020 Winter	T7 utility	DSL	Aggregated	5	5 1	L.61596	1.471607	1.675312	2.894027	13.36848	4000.234	3600.21	0.0637	0.058604	
Placer	2020 Winter	T7IS	GAS	Aggregated	5	5 1	15.2013	4.932785	5.732246	133.6094	4.687909	2513.497	2262.148	0.002976	0.002662	
Placer	2020 Winter	UBUS	GAS	Aggregated	5	5 36	5.25494	3.579021	3.882648	29.37059	2.310969	2513.497	2262.147	0.004592	0.004261	
Placer	2020 Winter	UBUS	DSL	Aggregated	5	5 99	9.36538	1.146553	1.305275	7.287798	16.41383	2398.518	2158.666	0.411182	0.378288	
Placer	2020 Winter	All Other I	3 DSL	Aggregated	5	5 33	3.12472	1.232716	1.403353	2.128714	9.610592	2581.803	2323.623	0.077148	0.070976	

EMFAC2011 En Region Type: C Region: Placer Calendar Year: Season: Winter	nission ounty 2035	Rates														
Vehicle Classifi	cation:	EMFAC20	11 Categori	es												
Region Call	/r	Season	Veh_Class	Fuel	MdlYr	Speed	VMT	ROG_RUNI	TOG_RUNI	CO_RUNEX	NOX_RUNI	CO2_RUNE	CO2_RUNE	PM10_RUN	PM2_5_RUN	NEX
						(miles/nr)	(miles/day	(gms/mie)								
Placer	2035	Winter	LDA	GAS	Aggregate	5	0	0	0	0	0	0	0	0	0	
Placer	2035	Winter	LDA	DSL	Aggregate	5	0	0	0	0	0	0	0	0	0	
Placer	2035	winter		GAS	Aggregated	5	0	0	0	0	0	0	0	0	0	
Placer	2035	winter	LDTI	DSL	Aggregated	5	0	0	0	0	0	0	0	0	0	
Placer	2035	winter		GAS	Aggregated	5	0	0	0	0	0	0	0	0	0	
Placer	2035	Winter	LDIZ	DSL	Aggregate	5	0	0	0	0	0	0	0	0	0	
Placer	2035	Winter		GAS	Aggregate	5	13953.01	0.04/158	0.077516	0.732794	1 5005	2513.497	2262.148	0.001395	0.001294	
Placer	2035	winter	LHDI	DSL	Aggregated	5	/9/4.956	0.20/31	0.236008	2.510485	1.5895	519.0508	467.1457	0.055599	0.051151	
Placer	2035	winter	LHDZ	GAS	Aggregate	5	1101.074	0.033125	0.060563	0.516628	0.081108	2513.497	2262.147	0.001033	0.000959	
Placer	2035	winter	LHDZ	DSL	Aggregated	5	1635.09	0.183701	0.209132	2.292815	1.420013	519.0781	467.1703	0.050173	0.046159	
Placer	2035	Winter	MCY	GAS	Aggregate	5	0	0	0	0	0	0	0	0	0	
Placer	2035	Winter	MDV	GAS	Aggregate	5	0	0	0	0	0	0	0	0	0	
Placer	2035	Winter	MDV	DSL	Aggregate	5	0	0	0	0	0	0	0	0	0	
Placer	2035	Winter	MH	GAS	Aggregate	5	387.376	0.054194	0.096575	0.752364	0.131379	2513.497	2262.148	0.001025	0.000951	
Placer	2035	winter	MH	DSL	Aggregated	5	89.06197	1.061453	1.208394	1.865149	10.76188	2408.689	2167.82	0.112549	0.103545	
Placer	2035	Winter	Motor Coa	aDSL	Aggregate	5	19.82838	2.3591	2.685655	4./12242	6.068083	3956.383	3560.744	0.069697	0.064121	
Placer	2035	Winter	OBUS	GAS	Aggregate	5	135.3024	0.071924	0.115862	1.042829	0.137664	2513.497	2262.148	0.00099	0.000919	
Placer	2035	winter	SBUS	GAS	Aggregate	5	19.90691	0.654186	0.773915	9.108072	0.853272	2513.497	2262.147	0.004389	0.004072	
Placer	2035	winter	SBUS	DSL	Aggregate	5	46./19/6	2.281405	2.597206	4.045577	12.56862	2617.434	2355.691	0.064331	0.059184	
Placer	2035	winter	T6 Ag	DSL	Aggregated	5	39.6/92/	1.199057	1.365035	2.126267	3.8//313	2560.316	2304.285	0.046345	0.042637	
Placer	2035	Winter	T6 Public	DSL	Aggregate	5	104.9525	0.88/145	1.009947	1.568143	3.121/41	2562.97	2306.673	0.034551	0.031/8/	
Placer	2035	Winter	T6 CAIRP I	n DSL	Aggregate	5	1./14406	1.04/124	1.1920/1	1.856847	3.179918	2559.771	2303.794	0.038962	0.035845	
Placer	2035	Winter	T6 CAIRP S	S DSL	Aggregate	5	5.935137	0.995141	1.132892	1.764666	2.924044	2559.758	2303.782	0.036386	0.033475	
Placer	2035	Winter	16 005 he	DSL	Aggregate	5	0.982905	1.04/124	1.1920/1	1.856847	3.179918	2559.771	2303.794	0.038962	0.035845	
Placer	2035	Winter	16 005 sn	nDSL	Aggregate	5	3.402738	0.995141	1.132892	1.764666	2.924044	2559.758	2303.782	0.036386	0.033475	
Placer	2035	Winter	T6 instate	DSL	Aggregate	5	66.3747	1.137353	1.29479	2.01685	3.619596	2559.83	2303.847	0.043423	0.039949	
Placer	2035	Winter	16 instate	DSL	Aggregate	5	194.8438	1.035935	1.1/9334	1.83/00/	3.12387	2559.773	2303.796	0.038406	0.035334	
Placer	2035	Winter	T6 instate	DSL	Aggregate	5	2/6.535/	1.141365	1.299357	2.023964	3.638817	2559.839	2303.855	0.043619	0.04013	
Placer	2035	winter	T6 Instate	DSL	Aggregate	5	806.5079	1.03/949	1.181626	1.840577	3.133/63	2559.775	2303.798	0.038505	0.035425	
Placer	2035	winter	T6 utility	DSL	Aggregated	5	7.018945	0.838258	0.954293	1.486469	2.149032	2559.765	2303.789	0.028595	0.026308	
Placer	2035	Winter	1615	GAS	Aggregate	5	233.7801	0.072552	0.11/002	1.061929	0.139518	2513.497	2262.148	0.00104	0.000965	
Placer	2035	Winter	T7 Ag	DSL	Aggregate	5	49.37253	2.49/298	2.842984	4.986957	6.566654	3956.995	3561.296	0.074674	0.0687	
Placer	2035	winter	T7 CAIRP	DSL	Aggregated	5	612.3156	2.5/2821	2.928961	5.142669	6.937884	3956.349	3560.714	0.078127	0.071877	
Placer	2035	winter			Aggregated	5	24.4201	2.5/29/	2.929131	5.142971	6.938994	3956.349	3560.714	0.078133	0.071882	
Placer	2035	winter		S DSL	Aggregated	5	000.0322	2.233/84	2.542993	4.460214	5.505072	3950.340	3500.711	0.064801	0.059617	
Placer	2035	Winter	T7 NOOS	DSL	Aggregate	5	222.9898	2.5/2821	2.928961	5.14267	6.93/883	3956.349	3560.714	0.078127	0.0/18//	
Placer	2035	winter	17 other p	DSL	Aggregated	5	1.9236/1	3.095829	3.524366	6.195514	9.074166	3956.344	3560.709	0.098693	0.090798	
Placer	2035	winter	T7 POAK	DSL	Aggregated	5	57.50259	3.095829	3.524366	6.195514	9.053272	3956.344	3560.709	0.098693	0.090798	
Placer	2035	winter	T7 POLA	DSL	Aggregated	5	0	0	0	0	12 00744	0	0	0	0	
Placer	2035	winter		DSL	Aggregated	5	43.91012	1.689947	1.923876	3.29/8/5	12.00744	3984.098	3585.688	0.085803	0.078938	
Placer	2035	Winter	17 Single	DSL	Aggregate	5	205.0613	2.164196	2.463//3	4.319045	5.268575	3956.584	3560.926	0.061922	0.056969	
Placer	2035	Winter	I / single o	DSL	Aggregate	5	63.1/158	2.145191	2.442137	4.280961	5.195347	3956.546	3560.892	0.061198	0.056302	
Placer	2035	winter	1/ SWCV	DSL	Aggregate	5	27.361/2	1.932912	2.200473	3.850255	4.795914	3959.615	3563.653	0.053367	0.049098	
Placer	2035	winter	1 / tractor	DSL	Aggregate	5	204.3000	2.723214	3.1001/2	5.444225	7.531/67	3956.538	3560.884	0.085884	0.07/1/3	
Placer	2035	winter	1 / tractor	DSL	Aggregate	5	47.09908	2.754291	3.13555	5.5066/5	7.65239	3956.555	3560.899	0.085092	0.078284	
Placer	2035	winter	1 / utility	DSL	Aggregate	5	2.384217	1.692269	1.926519	3.37008	3.376063	3956.396	3560.756	0.043503	0.040022	
Placer	2035	winter	1715	GAS	Aggregate	5	13.35405	2.468/02	3.119634	110.8445	3.938/37	2513.497	2262.147	0.001008	0.000936	
Placer	2035	winter	ORO2	GAS	Aggregate	5	42.80168	1.442945	1.601118	1/.58666	1.699865	2513.497	2262.147	0.001822	0.00169	
Placer	2035	Winter	OBO2		Aggregate	5	11/.3083	1 220527	1 200722	2.100200	10.0/909	2303.905	20/3.514	0.299250	0.2/5310	
FIACEI	2055	vviiitei	All Other I	UDSL	wagiegale	5	42.97031	1.229327	1.333/23	2.100233	4.000/00	2323.313	2303.927	0.04797	0.044155	

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL JUNE 1989 VERSION PAGE 1

JOB: C:\Lakes\CALRoads View\Stanford Ranch_20 RUN: CALINE4 RUN (WORST CASE ANGLE) POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

	U=	0.5	M/S	Z0=	100.	CM		ALT=	0.
(M)									
	BRG=	WORST	CASE	VD=	0.0	CM/S			
	CLAS=	7	(G)	VS=	0.0	CM/S			
	MIXH=	1000.	М	AMB=	0.0	PPM			
	SIGTH=	15.	DEGREES	TEMP=	6.8	DEGREE	(C)		

II. LINK VARIABLES

	LINK	*	LINK	COORD	INATES	(M)	*			EF	Н	W
	DESCRIPTION	*	X1	Y1	X2	Y2	*	TYPE	VPH	(G/MI)	(M)	
(M)												
		_*.					_ * .					
Α.	Link_1	*	-1000	-5	0	-5	*	AG	525	8.0	0.0	
17.0												
в.	Link_2	*	0	-4	1000	-4	*	AG	482	8.0	0.0	
13.3												
С.	Link_3	*	1000	5	0	5	*	AG	557	8.0	0.0	
17.0												
D.	Link_4	*	0	4	-1000	4	*	AG	591	8.0	0.0	
13.3												
Ε.	Link_5	*	-11	1000	-11	0	*	AG	1191	8.0	0.0	
27.9												
F.	Link_6	*	-5	0	-5	-1000	*	AG	1777	8.0	0.0	
17.0												
G.	Link_7	*	11	-1000	11	0	*	AG	2011	8.0	0.0	
27.9												
н.	Link_8	*	5	0	5	1000	*	AG	1434	8.0	0.0	
17.0												

III. RECEPTOR LOCATIONS

	*	CO	ORDINATES	(M)
RECEPTOR	*	Х	Y	Ζ

		*			
1.	R_001	*	-25	10	1.8
2.	R_002	*	14	14	1.8
3.	R_003	*	-14	-14	1.8
4.	R_004	*	25	-10	1.8

1

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL JUNE 1989 VERSION PAGE 2

JOB: C:\Lakes\CALRoads View\Stanford Ranch_20 RUN: CALINE4 RUN (WORST CASE ANGLE) POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

	*		*	PRED	*				CONC/	LINK			
	*	BRG	*	CONC	*				(PP	M)			
RECEPTOR	*	(DEG)	*	(PPM)	*	А	В	С	D	Е	F	G	Η
	_		_.		_ * _								
1. R_001	*	168.	*	2.3	*	0.2	0.0	0.0	0.3	0.1	0.9	0.7	0.0
2. R_002	*	185.	*	3.1	*	0.0	0.2	0.3	0.0	0.0	0.8	1.5	0.3
3. R_003	*	171.	*	2.8	*	0.0	0.0	0.0	0.0	0.0	1.9	1.0	0.0
4. R_004	*	277.	*	2.3	*	0.4	0.2	0.0	0.4	0.1	0.4	0.8	0.0

1 EXIT CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL JUNE 1989 VERSION PAGE 1

JOB: C:\Lakes\CALRoads View\Stanford Ranch_20 RUN: CALINE4 RUN (WORST CASE ANGLE) POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

	U=	0.5	M/S	Z0=	100.	CM		ALT=	0.
(M)									
	BRG=	WORST	CASE	VD=	0.0	CM/S			
	CLAS=	7	(G)	VS=	0.0	CM/S			
	MIXH=	1000.	М	AMB=	0.0	PPM			
	SIGTH=	15.	DEGREES	TEMP=	6.8	DEGREE	(C)		

II. LINK VARIABLES

	LINK	*	LINK	COORD	INATES	(M)	*			EF	Н	W
	DESCRIPTION	*	X1	Y1	X2	Y2	*	TYPE	VPH	(G/MI)	(M)	
(M)												
		_*.					_ * .					
Α.	Link_1	*	-1000	-5	0	-5	*	AG	475	4.0	0.0	
17.0												
в.	Link_2	*	0	-4	1000	-4	*	AG	530	4.0	0.0	
13.3												
С.	Link_3	*	1000	5	0	5	*	AG	630	4.0	0.0	
17.0												
D.	Link_4	*	0	4	-1000	4	*	AG	505	4.0	0.0	
13.3												
Ε.	Link_5	*	-11	1000	-11	0	*	AG	1300	4.0	0.0	
27.9												
F.	Link_6	*	-5	0	-5	-1000	*	AG	1890	4.0	0.0	
17.0												
G.	Link_7	*	11	-1000	11	0	*	AG	2170	4.0	0.0	
27.9												
н.	Link_8	*	5	0	5	1000	*	AG	1650	4.0	0.0	
17.0												

III. RECEPTOR LOCATIONS

	*	CO	COORDINATES					
RECEPTOR	*	Х	Y	Ζ				

		*			
1.	R_001	*	-25	10	1.8
2.	R_002	*	14	14	1.8
3.	R_003	*	-14	-14	1.8
4.	R_004	*	25	-10	1.8

1

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL JUNE 1989 VERSION PAGE 2

JOB: C:\Lakes\CALRoads View\Stanford Ranch_20 RUN: CALINE4 RUN (WORST CASE ANGLE) POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

	*		*	PRED	*				CONC/	LINK			
	*	BRG	*	CONC	*				(PP	M)			
RECEPTOR	*	(DEG)	*	(PPM)	*	А	В	С	D	Е	F	G	Η
	*_		_ * .		_*_								
1. R_001	*	168.	*	1.2	*	0.1	0.0	0.0	0.1	0.1	0.5	0.4	0.0
2. R_002	*	185.	*	1.7	*	0.0	0.1	0.2	0.0	0.0	0.4	0.8	0.2
3. R_003	*	171.	*	1.5	*	0.0	0.0	0.0	0.0	0.0	1.0	0.5	0.0
4. R_004	*	189.	*	1.2	*	0.0	0.0	0.0	0.0	0.0	0.4	0.8	0.0

1 EXIT CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL JUNE 1989 VERSION PAGE 1

JOB: C:\Lakes\CALRoads View\Stanford Ranch_20 RUN: CALINE4 RUN (WORST CASE ANGLE) POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

	U=	0.5	M/S	Z0=	100.	CM		ALT=	0.
(M)									
	BRG=	WORST	CASE	VD=	0.0	CM/S			
	CLAS=	7	(G)	VS=	0.0	CM/S			
	MIXH=	1000.	М	AMB=	0.0	PPM			
	SIGTH=	15.	DEGREES	TEMP=	6.8	DEGREE	(C)		

II. LINK VARIABLES

	LINK	*	LINK	COORD	INATES	(M)	*			EF	Н	W
	DESCRIPTION	*	X1	Y1	X2	Y2	*	TYPE	VPH	(G/MI)	(M)	
(M)												
		_*-					_ * .					
A.	Link_1	*	-1000	-5	0	-5	*	AG	425	1.8	0.0	
17.0												
в.	Link_2	*	0	-4	1000	-4	*	AG	560	1.8	0.0	
13.3												
С.	Link_3	*	1000	5	0	5	*	AG	670	1.8	0.0	
17.0												
D.	Link_4	*	0	4	-1000	4	*	AG	480	1.8	0.0	
13.3												
Ε.	Link_5	*	-11	1000	-11	0	*	AG	1390	1.8	0.0	
27.9												
F.	Link_6	*	-5	0	-5	-1000	*	AG	1880	1.8	0.0	
17.0												
G.	Link_7	*	11	-1000	11	0	*	AG	1820	1.8	0.0	
27.9												
н.	Link_8	*	5	0	5	1000	*	AG	1385	1.8	0.0	
17.0												

III. RECEPTOR LOCATIONS

	*	COC	COORDINATES						
RECEPTOR	*	Х	Y	Ζ					

		*			
1.	R_001	*	-25	10	1.8
2.	R_002	*	14	14	1.8
3.	R_003	*	-14	-14	1.8
4.	R_004	*	25	-10	1.8

1

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL JUNE 1989 VERSION PAGE 2

JOB: C:\Lakes\CALRoads View\Stanford Ranch_20 RUN: CALINE4 RUN (WORST CASE ANGLE) POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

	*		*	PRED	*				CONC/	LINK			
	*	BRG	*	CONC	*				(PP	M)			
RECEPTOR	*	(DEG)	*	(PPM)	*	А	В	С	D	Е	F	G	Η
	_		_.		_ * _								
1. R 001	*	168.	*	0.5	*	0.0	0.0	0.0	0.1	0.0	0.2	0.2	0.0
2. R_002	*	185.	*	0.7	*	0.0	0.0	0.1	0.0	0.0	0.2	0.3	0.1
3. R_003	*	171.	*	0.6	*	0.0	0.0	0.0	0.0	0.0	0.4	0.2	0.0
4. R_004	*	190.	*	0.5	*	0.0	0.0	0.0	0.0	0.0	0.2	0.3	0.0

1 EXIT CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL JUNE 1989 VERSION PAGE 1

JOB: C:\Lakes\CALRoads View\Stanford Ranch_11 RUN: CALINE4 RUN (WORST CASE ANGLE) POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

	U=	0.5	M/S	Z0=	100.	CM		ALT=	0.
(M)									
	BRG=	WORST	CASE	VD=	0.0	CM/S			
	CLAS=	7	(G)	VS=	0.0	CM/S			
	MIXH=	1000.	М	AMB=	0.0	PPM			
	SIGTH=	15.	DEGREES	TEMP=	6.8	DEGREE	(C)		

II. LINK VARIABLES

	LINK	*	LINK	COORD	INATES	(M)	*			EF	Н	W
	DESCRIPTION	*	X1	Y1	X2	Y2	*	TYPE	VPH	(G/MI)	(M)	
(M)												
		*					_ * .					
Α.	Link_1	*	-1000	-2	0	-2	*	AG	383	8.0	0.0	
10.0												
в.	Link_2	*	0	0	1000	0	*	AG	0	8.0	0.0	
10.0												
С.	Link_3	*	1000	2	0	2	*	AG	764	8.0	0.0	
10.0												
D.	Link_4	*	0	2	-1000	2	*	AG	925	8.0	0.0	
10.0												
Ε.	Link_5	*	-5	1000	-5	0	*	AG	1773	8.0	0.0	
17.0												
F.	Link_6	*	-5	0	-5	-1000	*	AG	1890	8.0	0.0	
17.0												
G.	Link_7	*	5	-1000	5	0	*	AG	2168	8.0	0.0	
17.0												
н.	Link_8	*	5	0	5	1000	*	AG	2273	8.0	0.0	
17.0												

III. RECEPTOR LOCATIONS

	*	CO	COORDINATES					
RECEPTOR	*	Х	Y	Z				
		*						
----	-------	---	-----	----	-----			
1.	R_001	*	-14	7	1.8			
2.	R_002	*	14	7	1.8			
3.	R_003	*	-14	-7	1.8			
4.	R_004	*	14	-5	1.8			

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL JUNE 1989 VERSION PAGE 2

JOB: C:\Lakes\CALRoads View\Stanford Ranch_11 RUN: CALINE4 RUN (WORST CASE ANGLE) POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

	*		*	PRED	*				CONC/	LINK			
	*	BRG	*	CONC	*				(PP	M)			
RECEPTOR	*	(DEG)	*	(PPM)	*	А	В	С	D	Е	F	G	Η
	*_		_ * .		_*_								
1. R_001	*	171.	*	3.7	*	0.2	0.0	0.0	0.5	0.2	1.7	1.1	0.0
2. R_002	*	189.	*	3.6	*	0.0	0.0	0.4	0.0	0.0	1.0	2.0	0.3
3. R_003	*	9.	*	3.6	*	0.2	0.0	0.0	0.4	1.6	0.2	0.0	1.1
4. R_004	*	351.	*	3.6	*	0.0	0.0	0.4	0.0	0.9	0.0	0.2	2.1

JOB: C:\Lakes\CALRoads View\Stanford Ranch_11 RUN: CALINE4 RUN (WORST CASE ANGLE) POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

	U=	0.5	M/S	Z0=	100.	CM		ALT=	0.
(M)									
	BRG=	WORST	CASE	VD=	0.0	CM/S			
	CLAS=	7	(G)	VS=	0.0	CM/S			
	MIXH=	1000.	М	AMB=	0.0	PPM			
	SIGTH=	15.	DEGREES	TEMP=	6.8	DEGREE	(C)		

II. LINK VARIABLES

	LINK	*	LINK	COORD	INATES	(M)	*			EF	Н	W
	DESCRIPTION	*	X1	Y1	X2	Y2	*	TYPE	VPH	(G/MI)	(M)	
(M)												
		*					_ * .					
Α.	Link_1	*	-1000	-2	0	-2	*	AG	380	4.0	0.0	
10.0												
в.	Link_2	*	0	0	1000	0	*	AG	0	4.0	0.0	
10.0												
С.	Link_3	*	1000	2	0	2	*	AG	825	4.0	0.0	
10.0												
D.	Link_4	*	0	2	-1000	2	*	AG	925	4.0	0.0	
10.0												
Ε.	Link_5	*	-5	1000	-5	0	*	AG	1905	4.0	0.0	
17.0												
F.	Link_6	*	-5	0	-5	-1000	*	AG	1935	4.0	0.0	
17.0												
G.	Link_7	*	5	-1000	5	0	*	AG	2295	4.0	0.0	
17.0												
н.	Link_8	*	5	0	5	1000	*	AG	2545	4.0	0.0	
17.0												

	*	COC	COORDINATES					
RECEPTOR	*	Х	Y	Ζ				

		*			
1.	R_001	*	-14	7	1.8
2.	R_002	*	14	7	1.8
3.	R_003	*	-14	-7	1.8
4.	R_004	*	14	-5	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL JUNE 1989 VERSION PAGE 2

JOB: C:\Lakes\CALRoads View\Stanford Ranch_11 RUN: CALINE4 RUN (WORST CASE ANGLE) POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

	*		*	PRED	*				CONC/	LINK			
	*	BRG	*	CONC	*				(PP	M)			
RECEPTOR	*	(DEG)	*	(PPM)	*	A	В	С	D	Е	F	G	Η
	*_		_ * .		_ * _								
1. R_001	*	171.	*	1.9	*	0.1	0.0	0.0	0.3	0.1	0.9	0.6	0.0
2. R_002	*	189.	*	1.9	*	0.0	0.0	0.2	0.0	0.0	0.5	1.0	0.1
3. R_003	*	9.	*	1.9	*	0.1	0.0	0.0	0.2	0.9	0.1	0.0	0.6
4. R_004	*	351.	*	1.9	*	0.0	0.0	0.2	0.0	0.5	0.0	0.1	1.2

JOB: C:\Lakes\CALRoads View\Stanford Ranch_11 RUN: CALINE4 RUN (WORST CASE ANGLE) POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

	U=	0.5	M/S	Z0=	100.	CM		ALT=	0.
(M)									
	BRG=	WORST	CASE	VD=	0.0	CM/S			
	CLAS=	7	(G)	VS=	0.0	CM/S			
	MIXH=	1000.	М	AMB=	0.0	PPM			
	SIGTH=	15.	DEGREES	TEMP=	6.8	DEGREE	(C)		

II. LINK VARIABLES

	LINK	*	LINK	COORD	INATES	(M)	*			EF	Н	W
	DESCRIPTION	*	X1	Y1	X2	Y2	*	TYPE	VPH	(G/MI)	(M)	
(M)												
		_*-					_ * .					
Α.	Link_1	*	-1000	-2	0	-2	*	AG	385	1.8	0.0	
10.0												
в.	Link_2	*	0	0	1000	0	*	AG	0	1.8	0.0	
10.0												
С.	Link_3	*	1000	2	0	2	*	AG	1055	1.8	0.0	
10.0												
D.	Link_4	*	0	2	-1000	2	*	AG	1425	1.8	0.0	
10.0												
Ε.	Link_5	*	-5	1000	-5	0	*	AG	1915	1.8	0.0	
17.0												
F.	Link_6	*	-5	0	-5	-1000	*	AG	1915	1.8	0.0	
17.0												
G.	Link_7	*	5	-1000	5	0	*	AG	2250	1.8	0.0	
17.0												
н.	Link_8	*	5	0	5	1000	*	AG	2265	1.8	0.0	
17.0												

	*	COC	COORDINATES					
RECEPTOR	*	Х	Y	Ζ				

		*			
1.	R_001	*	-14	7	1.8
2.	R_002	*	14	7	1.8
3.	R_003	*	-14	-7	1.8
4.	R_004	*	14	-5	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL JUNE 1989 VERSION PAGE 2

JOB: C:\Lakes\CALRoads View\Stanford Ranch_11 RUN: CALINE4 RUN (WORST CASE ANGLE) POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

	*		*	PRED	*				CONC/	LINK			
	*	BRG	*	CONC	*				(PP	M)			
RECEPTOR	*	(DEG)	*	(PPM)	*	A	В	С	D	Е	F	G	Η
	*_		_ * .		_ * _								
1. R_001	*	171.	*	0.9	*	0.0	0.0	0.0	0.2	0.0	0.4	0.3	0.0
2. R_002	*	189.	*	0.9	*	0.0	0.0	0.1	0.0	0.0	0.2	0.5	0.1
3. R_003	*	9.	*	0.9	*	0.0	0.0	0.0	0.1	0.4	0.0	0.0	0.3
4. R_004	*	351.	*	0.9	*	0.0	0.0	0.1	0.0	0.2	0.0	0.0	0.5

JOB: C:\Lakes\CALRoads View\Stanford Ranch_12 RUN: CALINE4 RUN (WORST CASE ANGLE) POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

	U=	0.5	M/S	Z0=	100.	CM		ALT=	0.
(M)									
	BRG=	WORST	CASE	VD=	0.0	CM/S			
	CLAS=	7	(G)	VS=	0.0	CM/S			
	MIXH=	1000.	М	AMB=	0.0	PPM			
	SIGTH=	15.	DEGREES	TEMP=	6.8	DEGREE	(C)		

II. LINK VARIABLES

	LINK	*	LINK	COORD	INATES	(M)	*			EF	Н	W
	DESCRIPTION	*	X1	Y1	X2	Y2	*	TYPE	VPH	(G/MI)	(M)	
(M)												
		*					_ * .					
Α.	Link_1	*	-1000	-4	0	-4	*	AG	583	8.0	0.0	
13.3												
в.	Link_2	*	0	-4	1000	-4	*	AG	983	8.0	0.0	
13.3												
С.	Link_3	*	1000	2	0	2	*	AG	204	8.0	0.0	
10.0												
D.	Link_4	*	0	0	-1000	0	*	AG	0	8.0	0.0	
10.0												
Ε.	Link_5	*	-9	1000	-9	0	*	AG	1890	8.0	0.0	
24.3												
F.	Link_6	*	-7	0	-7	-1000	*	AG	1930	8.0	0.0	
20.6												
G.	Link_7	*	7	-1000	7	0	*	AG	2404	8.0	0.0	
20.6												
н.	Link_8	*	7	0	7	1000	*	AG	2168	8.0	0.0	
20.6												

	*	COC	COORDINATES						
RECEPTOR	*	Х	Y	Ζ					

		*_			
1.	R_001	*	-21	5	1.8
2.	R_002	*	18	7	1.8
3.	R_003	*	-18	-10	1.8
4.	R_004	*	18	-10	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL JUNE 1989 VERSION PAGE 2

JOB: C:\Lakes\CALRoads View\Stanford Ranch_12 RUN: CALINE4 RUN (WORST CASE ANGLE) POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

	*		*	PRED	*				CONC/	LINK			
	*	BRG	*	CONC	*				(PP	M)			
RECEPTOR	*	(DEG)	*	(PPM)	*	А	В	С	D	Е	F	G	Н
	*_		_ * .		_ * _								
1. R 001	*	170.	*	2.7	*	0.3	0.0	0.0	0.0	0.1	1.4	1.0	0.0
2. R_002	*	189.	*	3.6	*	0.0	0.4	0.1	0.0	0.0	0.9	2.0	0.2
3. R_003	*	8.	*	3.1	*	0.3	0.0	0.0	0.0	1.6	0.2	0.0	0.9
4. R_004	*	351.	*	3.5	*	0.0	0.5	0.1	0.0	0.8	0.0	0.3	1.7

JOB: C:\Lakes\CALRoads View\Stanford Ranch_12 RUN: CALINE4 RUN (WORST CASE ANGLE) POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

	U=	0.5	M/S	Z0=	100.	CM		ALT=	0.
(M)									
	BRG=	WORST	CASE	VD=	0.0	CM/S			
	CLAS=	7	(G)	VS=	0.0	CM/S			
	MIXH=	1000.	М	AMB=	0.0	PPM			
	SIGTH=	15.	DEGREES	TEMP=	6.8	DEGREE	(C)		

II. LINK VARIABLES

	LINK	*	LINK	COORD	INATES	(M)	*			EF	Н	W
	DESCRIPTION	*	X1	Y1	X2	Y2	*	TYPE	VPH	(G/MI)	(M)	
(M)												
		_*.					_ * .					
Α.	Link_1	*	-1000	-4	0	-4	*	AG	770	4.0	0.0	
13.3												
в.	Link_2	*	0	-4	1000	-4	*	AG	1055	4.0	0.0	
13.3												
С.	Link_3	*	1000	2	0	2	*	AG	225	4.0	0.0	
10.0												
D.	Link_4	*	0	0	-1000	0	*	AG	0	4.0	0.0	
10.0												
Ε.	Link_5	*	-9	1000	-9	0	*	AG	1935	4.0	0.0	
24.3												
F.	Link_6	*	-7	0	-7	-1000	*	AG	2115	4.0	0.0	
20.6												
G.	Link_7	*	7	-1000	7	0	*	AG	2535	4.0	0.0	
20.6												
н.	Link_8	*	7	0	7	1000	*	AG	2295	4.0	0.0	
20.6												

	*	COC	COORDINATES						
RECEPTOR	*	Х	Y	Ζ					

		*_			
1.	R_001	*	-21	5	1.8
2.	R_002	*	18	7	1.8
3.	R_003	*	-18	-10	1.8
4.	R_004	*	18	-10	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL JUNE 1989 VERSION PAGE 2

JOB: C:\Lakes\CALRoads View\Stanford Ranch_12 RUN: CALINE4 RUN (WORST CASE ANGLE) POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

	*		*	PRED	*				CONC/	LINK			
	*	BRG	*	CONC	*				(PP	M)			
RECEPTOR	*	(DEG)	*	(PPM)	*	A	В	С	D	Е	F	G	Η
	*_		_ * .		_ * _								
1. R_001	*	170.	*	1.5	*	0.2	0.0	0.0	0.0	0.0	0.7	0.5	0.0
2. R_002	*	189.	*	1.9	*	0.0	0.2	0.1	0.0	0.0	0.5	1.0	0.1
3. R_003	*	8.	*	1.6	*	0.2	0.0	0.0	0.0	0.8	0.1	0.0	0.5
4. R_004	*	351.	*	1.8	*	0.0	0.3	0.0	0.0	0.4	0.0	0.2	0.9

JOB: C:\Lakes\CALRoads View\Stanford Ranch_12 RUN: CALINE4 RUN (WORST CASE ANGLE) POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

	U=	0.5	M/S	Z0=	100.	CM		ALT=	0.
(M)									
	BRG=	WORST	CASE	VD=	0.0	CM/S			
	CLAS=	7	(G)	VS=	0.0	CM/S			
	MIXH=	1000.	М	AMB=	0.0	PPM			
	SIGTH=	15.	DEGREES	TEMP=	6.8	DEGREE	(C)		

II. LINK VARIABLES

	LINK	*	LINK	COORD	INATES	(M)	*			EF	Н	W
	DESCRIPTION	*	X1	Y1	X2	Y2	*	TYPE	VPH	(G/MI)	(M)	
(M)												
		_*-					_ * .					
Α.	Link_1	*	-1000	-4	0	-4	*	AG	1290	1.8	0.0	
13.3												
в.	Link_2	*	0	-4	1000	-4	*	AG	1210	1.8	0.0	
13.3												
С.	Link_3	*	1000	2	0	2	*	AG	350	1.8	0.0	
10.0												
D.	Link_4	*	0	0	-1000	0	*	AG	0	1.8	0.0	
10.0												
Ε.	Link_5	*	-9	1000	-9	0	*	AG	1915	1.8	0.0	
24.3												
F.	Link_6	*	-7	0	-7	-1000	*	AG	2560	1.8	0.0	
20.6												
G.	Link_7	*	7	-1000	7	0	*	AG	2465	1.8	0.0	
20.6												
н.	Link_8	*	7	0	7	1000	*	AG	2250	1.8	0.0	
20.6												

	*	COC	COORDINATES				
RECEPTOR	*	Х	Y	Ζ			

		*_			
1.	R_001	*	-21	5	1.8
2.	R_002	*	18	7	1.8
3.	R_003	*	-18	-10	1.8
4.	R_004	*	18	-10	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL JUNE 1989 VERSION PAGE 2

JOB: C:\Lakes\CALRoads View\Stanford Ranch_12 RUN: CALINE4 RUN (WORST CASE ANGLE) POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

	*		*	PRED	*				CONC/	LINK			
	*	BRG	*	CONC	*				(PP	M)			
RECEPTOR	*	(DEG)	*	(PPM)	*	А	В	С	D	Е	F	G	Η
	_ * _		_*.		_ * _								
1. R_001	*	169.	*	0.8	*	0.1	0.0	0.0	0.0	0.0	0.4	0.2	0.0
2. R_002	*	189.	*	0.9	*	0.0	0.1	0.0	0.0	0.0	0.2	0.5	0.0
3. R_003	*	82.	*	0.8	*	0.1	0.2	0.1	0.0	0.0	0.3	0.1	0.0
4. R_004	*	351.	*	0.8	*	0.0	0.1	0.0	0.0	0.2	0.0	0.1	0.4

JOB: C:\Lakes\CALRoads View\Stanford Ranch_13 RUN: CALINE4 RUN (WORST CASE ANGLE) POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

	U=	0.5	M/S	Z0=	100.	CM		ALT=	0.
(M)									
	BRG=	WORST	CASE	VD=	0.0	CM/S			
	CLAS=	7	(G)	VS=	0.0	CM/S			
	MIXH=	1000.	М	AMB=	0.0	PPM			
	SIGTH=	15.	DEGREES	TEMP=	6.8	DEGREE	(C)		

II. LINK VARIABLES

	LINK	*	LINK	COORD	INATES	(M)	*			EF	Н	W
	DESCRIPTION	*	X1	Y1	X2	Y2	*	TYPE	VPH	(G/MI)	(M)	
(M)												
		_*.					_ * .					
Α.	Link_1	*	-1000	-9	0	-9	*	AG	554	8.0	0.0	
24.3												
в.	Link_2	*	0	-4	1000	-4	*	AG	454	8.0	0.0	
13.3												
С.	Link_3	*	1000	9	0	9	*	AG	617	8.0	0.0	
24.3												
D.	Link_4	*	0	4	-1000	4	*	AG	327	8.0	0.0	
13.3												
Ε.	Link_5	*	-11	1000	-11	0	*	AG	1469	8.0	0.0	
27.9												
F.	Link_6	*	-7	0	-7	-1000	*	AG	1491	8.0	0.0	
20.6												
G.	Link_7	*	11	-1000	11	0	*	AG	1840	8.0	0.0	
27.9												
н.	Link_8	*	7	0	7	1000	*	AG	2208	8.0	0.0	
20.6												

	*	COC	COORDINATES				
RECEPTOR	*	Х	Y	Ζ			

		*			
1.	R_001	*	-25	10	1.8
2.	R_002	*	18	21	1.8
3.	R_003	*	-18	-21	1.8
4.	R_004	*	25	-10	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL JUNE 1989 VERSION PAGE 2

JOB: C:\Lakes\CALRoads View\Stanford Ranch_13 RUN: CALINE4 RUN (WORST CASE ANGLE) POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

	*		*	PRED	*				CONC/	LINK			
	*	BRG	*	CONC	*				(PP	M)			
RECEPTOR	*	(DEG)	*	(PPM)	*	А	В	С	D	Е	F	G	Η
	*_		_ * .		_ * _								
1. R 001	*	169.	*	2.1	*	0.2	0.0	0.0	0.2	0.1	0.9	0.7	0.0
2. R_002	*	187.	*	2.9	*	0.0	0.1	0.3	0.0	0.0	0.7	1.2	0.6
3. R_003	*	8.	*	2.7	*	0.2	0.0	0.0	0.1	1.0	0.4	0.0	1.0
4. R_004	*	349.	*	2.4	*	0.0	0.2	0.2	0.0	0.6	0.0	0.2	1.3

JOB: C:\Lakes\CALRoads View\Stanford Ranch_13 RUN: CALINE4 RUN (WORST CASE ANGLE) POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

	U=	0.5	M/S	Z0=	100.	CM		ALT=	0.
(M)									
	BRG=	WORST	CASE	VD=	0.0	CM/S			
	CLAS=	7	(G)	VS=	0.0	CM/S			
	MIXH=	1000.	М	AMB=	0.0	PPM			
	SIGTH=	15.	DEGREES	TEMP=	6.8	DEGREE	(C)		

II. LINK VARIABLES

	LINK	*	LINK	COORD	INATES	(M)	*			EF	Н	W
	DESCRIPTION	*	X1	Y1	X2	Y2	*	TYPE	VPH	(G/MI)	(M)	
(M)												
		_*.					_ * .					
Α.	Link_1	*	-1000	-9	0	-9	*	AG	340	4.0	0.0	
24.3												
в.	Link_2	*	0	-4	1000	-4	*	AG	470	4.0	0.0	
13.3												
С.	Link_3	*	1000	9	0	9	*	AG	640	4.0	0.0	
24.3												
D.	Link_4	*	0	4	-1000	4	*	AG	160	4.0	0.0	
13.3												
Ε.	Link_5	*	-11	1000	-11	0	*	AG	1545	4.0	0.0	
27.9												
F.	Link_6	*	-7	0	-7	-1000	*	AG	1655	4.0	0.0	
20.6												
G.	Link_7	*	11	-1000	11	0	*	AG	2020	4.0	0.0	
27.9												
н.	Link_8	*	7	0	7	1000	*	AG	2260	4.0	0.0	
20.6												

	*	COC	COORDINATES				
RECEPTOR	*	Х	Y	Ζ			

		*			
1.	R_001	*	-25	10	1.8
2.	R_002	*	18	21	1.8
3.	R_003	*	-18	-21	1.8
4.	R_004	*	25	-10	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL JUNE 1989 VERSION PAGE 2

JOB: C:\Lakes\CALRoads View\Stanford Ranch_13 RUN: CALINE4 RUN (WORST CASE ANGLE) POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

	*		*	PRED	*				CONC/	LINK			
	*	BRG	*	CONC	*				(PP	M)			
RECEPTOR	*	(DEG)	*	(PPM)	*	А	В	С	D	Е	F	G	Η
	_		_.		_ * _								
1. R_001	*	169.	*	1.0	*	0.1	0.0	0.0	0.0	0.1	0.5	0.4	0.0
2. R_002	*	187.	*	1.5	*	0.0	0.1	0.1	0.0	0.0	0.4	0.7	0.3
3. R_003	*	8.	*	1.3	*	0.1	0.0	0.0	0.0	0.5	0.2	0.0	0.5
4. R_004	*	349.	*	1.2	*	0.0	0.1	0.1	0.0	0.3	0.0	0.1	0.6

JOB: C:\Lakes\CALRoads View\Stanford Ranch_13 RUN: CALINE4 RUN (WORST CASE ANGLE) POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

	U=	0.5	M/S	Z0=	100.	CM		ALT=	0.
(M)									
	BRG=	WORST	CASE	VD=	0.0	CM/S			
	CLAS=	7	(G)	VS=	0.0	CM/S			
	MIXH=	1000.	М	AMB=	0.0	PPM			
	SIGTH=	15.	DEGREES	TEMP=	6.8	DEGREE	(C)		

II. LINK VARIABLES

	LINK	*	LINK	COORD	INATES	(M)	*			EF	Н	W
	DESCRIPTION	*	X1	Y1	X2	Y2	*	TYPE	VPH	(G/MI)	(M)	
(M)												
		_*-					_ * .					
Α.	Link_1	*	-1000	-9	0	-9	*	AG	455	1.8	0.0	
24.3												
в.	Link_2	*	0	-4	1000	-4	*	AG	520	1.8	0.0	
13.3												
С.	Link_3	*	1000	9	0	9	*	AG	665	1.8	0.0	
24.3												
D.	Link_4	*	0	4	-1000	4	*	AG	320	1.8	0.0	
13.3												
Ε.	Link_5	*	-11	1000	-11	0	*	AG	1855	1.8	0.0	
27.9												
F.	Link_6	*	-7	0	-7	-1000	*	AG	1680	1.8	0.0	
20.6												
G.	Link_7	*	11	-1000	11	0	*	AG	1560	1.8	0.0	
27.9												
н.	Link_8	*	7	0	7	1000	*	AG	2015	1.8	0.0	
20.6												

	*	COC	COORDINATES					
RECEPTOR	*	Х	Y	Ζ				

		*			
1.	R_001	*	-25	10	1.8
2.	R_002	*	18	21	1.8
3.	R_003	*	-18	-21	1.8
4.	R_004	*	25	-10	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL JUNE 1989 VERSION PAGE 2

JOB: C:\Lakes\CALRoads View\Stanford Ranch_13 RUN: CALINE4 RUN (WORST CASE ANGLE) POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

	*		*	PRED	*				CONC/	LINK			
	*	BRG	*	CONC	*				(PP	M)			
RECEPTOR	*	(DEG)	*	(PPM)	*	A	В	С	D	Е	F	G	Η
	_		_.		_ * _								
1. R_001	*	10.	*	0.5	*	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.2
2. R_002	*	188.	*	0.6	*	0.0	0.0	0.1	0.0	0.0	0.2	0.2	0.1
3. R_003	*	7.	*	0.6	*	0.0	0.0	0.0	0.0	0.3	0.1	0.0	0.2
4. R_004	*	349.	*	0.6	*	0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.3

JOB: C:\Lakes\CALRoads View\Stanford Ranch 14 RUN: CALINE4 RUN (WORST CASE ANGLE) POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

	U=	0.5	M/S	Z0=	100.	CM		ALT=	0.
(M)									
	BRG=	WORST	CASE	VD=	0.0	CM/S			
	CLAS=	7	(G)	VS=	0.0	CM/S			
	MIXH=	1000.	М	AMB=	0.0	PPM			
	SIGTH=	15.	DEGREES	TEMP=	6.8	DEGREE	(C)		

II. LINK VARIABLES

	LINK	*	LINK	COORD	INATES	(M)	*			EF	Н	W
	DESCRIPTION	*	X1	Y1	X2	Y2	*	TYPE	VPH	(G/MI)	(M)	
(M)												
		_*.					_ * .					
Α.	Link_1	*	-1000	-11	0	-11	*	AG	1958	8.0	0.0	
27.9												
в.	Link_2	*	0	-7	1000	-7	*	AG	1668	8.0	0.0	
20.6												
С.	Link_3	*	1000	11	0	11	*	AG	2147	8.0	0.0	
27.9												
D.	Link_4	*	0	7	-1000	7	*	AG	2041	8.0	0.0	
20.6												
Ε.	Link_5	*	-11	1000	-11	0	*	AG	1536	8.0	0.0	
27.9												
F.	Link_6	*	-7	0	-7	-1000	*	AG	1337	8.0	0.0	
20.6												
G.	Link_7	*	11	-1000	11	0	*	AG	1208	8.0	0.0	
27.9												
н.	Link_8	*	7	0	7	1000	*	AG	1803	8.0	0.0	
20.6												

	*	COC	COORDINATES					
RECEPTOR	*	Х	Y	Ζ				

		*			
1.	R_001	*	-25	18	1.8
2.	R_002	*	18	25	1.8
3.	R_003	*	-18	-25	1.8
4.	R_004	*	25	-18	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL JUNE 1989 VERSION PAGE 2

JOB: C:\Lakes\CALRoads View\Stanford Ranch 14 RUN: CALINE4 RUN (WORST CASE ANGLE) POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

	*		*	PRED	*				CONC/	LINK			
	*	BRG	*	CONC	*				(PP	M)			
RECEPTOR	*	(DEG)	*	(PPM)	*	А	В	С	D	Е	F	G	Η
	*_		_ * .		_ * _								
1. R_001	*	97.	*	3.7	*	0.0	0.7	1.3	0.6	0.6	0.0	0.0	0.4
2. R_002	*	259.	*	3.4	*	0.7	0.0	0.3	1.2	0.4	0.0	0.0	0.8
3. R_003	*	8.	*	3.4	*	0.8	0.0	0.0	0.4	1.0	0.4	0.0	0.8
4. R_004	*	277.	*	3.4	*	1.2	0.5	0.0	0.9	0.0	0.3	0.5	0.0

JOB: C:\Lakes\CALRoads View\Stanford Ranch 14 RUN: CALINE4 RUN (WORST CASE ANGLE) POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

	U=	0.5	M/S	Z0=	100.	CM		ALT=	0.
(M)									
	BRG=	WORST	CASE	VD=	0.0	CM/S			
	CLAS=	7	(G)	VS=	0.0	CM/S			
	MIXH=	1000.	М	AMB=	0.0	PPM			
	SIGTH=	15.	DEGREES	TEMP=	6.8	DEGREE	(C)		

II. LINK VARIABLES

	LINK	*	LINK	COORD	INATES	(M)	*			EF	Н	W
	DESCRIPTION	*	X1	Y1	X2	Y2	*	TYPE	VPH	(G/MI)	(M)	
(M)												
		_*-					_ * .					
Α.	Link_1	*	-1000	-11	0	-11	*	AG	2255	4.0	0.0	
27.9												
в.	Link_2	*	0	-7	1000	-7	*	AG	1760	4.0	0.0	
20.6												
С.	Link_3	*	1000	11	0	11	*	AG	2255	4.0	0.0	
27.9												
D.	Link_4	*	0	7	-1000	7	*	AG	2330	4.0	0.0	
20.6												
Ε.	Link_5	*	-11	1000	-11	0	*	AG	1725	4.0	0.0	
27.9												
F.	Link_6	*	-7	0	-7	-1000	*	AG	1555	4.0	0.0	
20.6												
G.	Link_7	*	11	-1000	11	0	*	AG	1415	4.0	0.0	
27.9												
н.	Link_8	*	7	0	7	1000	*	AG	2005	4.0	0.0	
20.6												

	*	CO	COORDINATES					
RECEPTOR	*	Х	Y	Z				

		*			
1.	R_001	*	-25	18	1.8
2.	R_002	*	18	25	1.8
3.	R_003	*	-18	-25	1.8
4.	R_004	*	25	-18	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL JUNE 1989 VERSION PAGE 2

JOB: C:\Lakes\CALRoads View\Stanford Ranch 14 RUN: CALINE4 RUN (WORST CASE ANGLE) POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

	*		*	PRED	*				CONC/	LINK			
	*	BRG	*	CONC	*				(PP	M)			
RECEPTOR	*	(DEG)	*	(PPM)	*	А	В	С	D	Е	F	G	Η
	*_		_ * .		_ * _								
1. R_001	*	97.	*	2.0	*	0.0	0.4	0.7	0.3	0.3	0.0	0.0	0.2
2. R_002	*	259.	*	1.9	*	0.4	0.0	0.2	0.6	0.2	0.0	0.0	0.4
3. R_003	*	8.	*	1.9	*	0.4	0.0	0.0	0.2	0.5	0.2	0.0	0.4
4. R_004	*	277.	*	1.9	*	0.7	0.3	0.0	0.5	0.0	0.2	0.3	0.0

JOB: C:\Lakes\CALRoads View\Stanford Ranch 14 RUN: CALINE4 RUN (WORST CASE ANGLE) POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

	U=	0.5	M/S	Z0=	100.	CM		ALT=	0.
(M)									
	BRG=	WORST	CASE	VD=	0.0	CM/S			
	CLAS=	7	(G)	VS=	0.0	CM/S			
	MIXH=	1000.	М	AMB=	0.0	PPM			
	SIGTH=	15.	DEGREES	TEMP=	6.8	DEGREE	(C)		

II. LINK VARIABLES

	LINK	*	LINK	COORD	INATES	(M)	*			EF	Н	W
	DESCRIPTION	*	X1	Y1	X2	Y2	*	TYPE	VPH	(G/MI)	(M)	
(M)												
		_*.					_ * .					
Α.	Link_1	*	-1000	-11	0	-11	*	AG	2790	1.8	0.0	
27.9												
в.	Link_2	*	0	-7	1000	-7	*	AG	2055	1.8	0.0	
20.6												
С.	Link_3	*	1000	11	0	11	*	AG	2090	1.8	0.0	
27.9												
D.	Link_4	*	0	7	-1000	7	*	AG	2580	1.8	0.0	
20.6												
Ε.	Link_5	*	-11	1000	-11	0	*	AG	1855	1.8	0.0	
27.9												
F.	Link_6	*	-7	0	-7	-1000	*	AG	1905	1.8	0.0	
20.6												
G.	Link_7	*	11	-1000	11	0	*	AG	1295	1.8	0.0	
27.9												
н.	Link_8	*	7	0	7	1000	*	AG	1490	1.8	0.0	
20.6												

	*	COC	COORDINATES				
RECEPTOR	*	Х	Y	Ζ			

		*			
1.	R_001	*	-25	18	1.8
2.	R_002	*	18	25	1.8
3.	R_003	*	-18	-25	1.8
4.	R_004	*	25	-18	1.8

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL JUNE 1989 VERSION PAGE 2

JOB: C:\Lakes\CALRoads View\Stanford Ranch 14 RUN: CALINE4 RUN (WORST CASE ANGLE) POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

	*		*	PRED	*				CONC/	LINK			
	*	BRG	*	CONC	*				(PP	M)			
RECEPTOR	*	(DEG)	*	(PPM)	*	А	В	С	D	Е	F	G	Η
	_		_.		_ * _								
1. R_001	*	98.	*	0.9	*	0.0	0.2	0.3	0.2	0.2	0.0	0.0	0.1
2. R_002	*	259.	*	0.9	*	0.2	0.0	0.1	0.3	0.1	0.0	0.0	0.1
3. R_003	*	7.	*	0.9	*	0.2	0.0	0.0	0.1	0.3	0.1	0.0	0.1
4. R_004	*	277.	*	1.0	*	0.4	0.1	0.0	0.2	0.0	0.1	0.1	0.0

Appendix G. Selected Traffic Data

This appendix includes the following selected traffic data from the State Route 65 Capacity and Operational Improvements Transportation Analysis Report (Fehr & Peers 2015).

	Existin	g Year (2	2009 ¹)	Design Year (2040) Conditions												
Segment				Alternative 1 (Carpool Lane Alternative)					Alter (GP Lane	native 2 Alterna	Alternative 3 (No Build Alternative)					
	AADT	Truck AADT	% Truck	AADT	Truck AADT	% Truck	∆ % Truck from No Build Alternative	AADT	Truck AADT	% Truck	∆ % Truck from No Build Alternative	AADT	Truck AADT	% Truck		
Stanford Ranch Rd/ Galleria Blvd to Pleasant Grove Blvd	104,400	3,500	3.4%	169,200	6,600	3.9%	-0.2%	170,900	6,700	3.9%	-0.2%	152,400	6,300	4.1%		
Pleasant Grove Blvd to Blue Oaks Blvd	83,400	3,100	3.7%	159,800	6,300	3.9%	-0.4%	162,300	6,400	3.9%	-0.4%	140,800	6,000	4.3%		
Blue Oaks Blvd to Sunset Blvd	65,300	2,400	3.7%	134,600	4,900	3.6%	-0.5%	135,700	4,900	3.6%	-0.5%	112,100	4,600	4.1%		
Whitney Ranch Pkwy/Placer Pkwy to Twelve Bridges Dr	54,000	1,900	3.5%	126,500	3,500	2.8%	-0.2%	127,000	3,500	2.8%	-0.2%	112,700	3,400	3.0%		

Table G-1. AADT Volumes and Truck Percentages

Notes:

¹The existing conditions total volume data is from 2009 as reported in the PeMS database. The existing truck volumes are estimated from the base year SACMET model.

²The existing condition total volume data from Twelve Bridges Dr to Lincoln Blvd is estimated based on 2009 PeMS data at Sunset Blvd and the base year SACMET model.

	Carpoo Alteri	ol Lane native	General Lane Alt	Purpose ternative	No Build Alternative		
Intersection	AM	PM	AM	PM	AM	PM	
6. Blue Oaks Blvd / Washington Blvd / SR 65 SB Ramps	C / 31	D / 47	C / 35	D / 44	D / 52	F / 126	
10. Stanford Ranch Rd / Five Star Blvd	C / 27	<u>F / 92</u>	C / 27	<u>E / 76</u>	C / 29	D / 48	
11. Stanford Ranch Rd / SR 65 NB Ramps	B / 15	<u>C / 23</u>	<u>B / 20</u>	<u>C / 25</u>	B/18	B/12	
12. Galleria Blvd / SR 65 SB Ramps	B / 17	B / 16	B / 17	<u>B/17</u>	B / 17	B / 16	
16. Roseville Pkwy / Taylor Rd	D / 49	<u>D / 51</u>	D / 46	<u>D / 53</u>	F / 133	D / 42	
18. Atlantic St / Wills Rd	<u>C / 24</u>	<u>D / 39</u>	<u>C / 24</u>	<u>D/36</u>	B/19	C / 22	
20. Eureka Rd / Taylor Rd / I-80 EB Ramps	<u>C / 25</u>	D / 52	<u>C / 25</u>	<u>E / 72</u>	C / 22	D / 41	
21. Eureka Rd / Sunrise Ave	<u>C / 32</u>	D / 44	<u>C / 33</u>	D / 44	C / 26	E / 62	
23. Douglas Blvd / Harding Blvd	<u>D / 51</u>	E/77	C / 30	<u>F / 128</u>	D / 36	F / 92	
24. Douglas Blvd / I-80 WB Ramps	<u>C / 23</u>	<u>C / 35</u>	<u>C / 24</u>	C / 31	B / 20	C / 31	
25. Douglas Blvd / I-80 EB Ramps	<u>B / 20</u>	<u>D / 41</u>	A / 10	<u>D / 35</u>	B / 12	C / 29	
26. Douglas Blvd / Sunrise Ave	<u>C / 33</u>	<u>D / 54</u>	<u>C / 33</u>	<u>F / 86</u>	C / 28	D / 39	
28. Pacific St / Sunset Blvd	C / 24	C / 30	C / 24	C / 29	C / 27	F / 86	
29. Rocklin Rd / Granite Dr	B/17	<u>F / 130</u>	B / 18	<u>F / 130</u>	B/19	F / 127	
30. Rocklin Rd / I-80 WB Ramps	<u>C / 23</u>	C / 27	<u>C / 29</u>	C / 25	C / 21	D / 38	
31. Rocklin Rd / I-80 EB Ramps	<u>D / 42</u>	<u>E / 57</u>	D / 49	D / 46	D / 37	C / 33	

Table G-2. Intersection Operations Results – Construction Year (2020) Conditions

Note: **Bold** font indicates intersections at LOS D, E, or F. <u>Underlined</u> font indicate an increase in delay from the no build to build alternatives. The LOS and average delay in seconds per vehicle are reported.

	Carpoo Alter	ol Lane native	General Lane Al	Purpose ternative	No Build Alternative		
Intersection	AM	РМ	AM	PM	AM	PM	
6. Blue Oaks Blvd / Washington Blvd / SR 65 SB Ramps	E / 57	F / 140	E / 59	F / 153	F / 90	F / 214	
7. Blue Oaks Blvd / SR 65 NB Ramps	B / 17	D / 45	B / 16	D / 49	B / 17	F / 94	
10. Stanford Ranch Rd / Five Star Blvd	C / 27	F / 82	C / 26	E / 57	C / 26	F / 85	
11. Stanford Ranch Rd / SR 65 NB Ramps	B/11	<u>D / 36</u>	B / 12	B/19	B / 19	C / 21	
12. Galleria Blvd / SR 65 SB Ramps	B / 19	C / 25	B / 17	B / 19	D / 55	C / 27	
13. Galleria Blvd / Antelope Creek Dr	<u>A / 10</u>	C / 28	<u>A / 10</u>	<u>C / 29</u>	A / 8	C / 28	
14. Galleria Blvd / Roseville Pkwy	<u>D / 47</u>	F / 93	<u>D / 45</u>	F / 82	D / 41	F / 93	
15. Roseville Pkwy / Creekside Ridge Dr	A / 8	D / 50	A / 8	D / 47	A / 8	D / 50	
16. Roseville Pkwy / Taylor Rd	<u>E / 70</u>	D / 52	<u>E / 66</u>	D / 52	E / 60	E / 55	
17. Roseville Pkwy / Sunrise Ave	C / 33	E / 70	<u>C / 35</u>	E / 57	C / 33	F / 89	
20. Eureka Rd / Taylor Rd / I-80 EB Ramps	C / 30	E / 75	C / 30	F / 81	C / 30	F / 99	
21. Eureka Rd / Sunrise Ave	D / 41	F / 94	D / 41	F / 103	D / 41	F / 104	
23. Douglas Blvd / Harding Blvd	C / 26	<u>F / 91</u>	<u>C / 28</u>	<u>F / 96</u>	C / 26	E / 69	
24. Douglas Blvd / I-80 WB Ramps	C / 21	<u>C / 28</u>	B/19	<u>C / 33</u>	C / 22	C / 20	
25. Douglas Blvd / I-80 EB Ramps	C / 28	D / 37	C / 24	D / 37	C / 29	D / 39	
26. Douglas Blvd / Sunrise Ave	<u>D / 54</u>	<u>F / 254</u>	<u>D / 44</u>	<u>F / 241</u>	D / 43	F / 239	
29. Rocklin Rd / Granite Dr	<u>C / 29</u>	F / 95	<u>C / 28</u>	F / 84	C / 26	F / 101	
30. Rocklin Rd / I-80 WB Ramps	<u>C / 23</u>	<u>E / 68</u>	<u>C / 24</u>	<u>E / 63</u>	C / 22	D / 54	
31. Rocklin Rd / I-80 EB Ramps	C / 30	C / 21	C / 26	B / 20	D / 41	C / 21	

 Table G-3. Intersection Operations Results – Design Year (2040) Conditions

Note: **Bold** font indicates intersections at LOS D, E, or F. <u>Underlined</u> font indicate an increase in delay from the no build to build alternatives. The LOS and average delay in seconds per vehicle are reported.

Performance Measure		Existing Conditions	Carpool Lane Alternative	% Change from No Build	General Purpose Lane Alternative	% Change from No Build	No Build Alternative
Volume Served		143,450	167,490	-0.7%	167,510	-0.7%	168,620
(% of total demand)		100%	99%	0.0%	99%	0.0%	99%
Vehicle Miles of Travel (VMT)		645,270	799,520	1.4%	797,360	1.1%	788,490
Person Miles of Travel		786,260	982,670	1.7%	979,180	1.4%	965,810
Vehicle Hours of Travel (VHT)		13,760	18,060	-1.1%	18,000	-1.5%	18,270
Vehicle Hours of Delay (VHD)		2,670	4,350	-8.0%	4,330	-8.5%	4,730
(% of VHT)		19%	24%	-7.7%	24%	-7.7%	26%
Average Delay per Vehicle (min)		1.12	1.56	-7.1%	1.55	-7.7%	1.68
Person Hours of Delay		3,240	5,160	-7.9%	5,140	-8.2%	5,600
Average Speed		46.9	44.3	2.5%	44.3	2.5%	43.2
Average Speed for HOVs		47.0	46.7	2.2%	46.6	2.0%	45.7
Travel Time: Ferrari Ranch Rd to I-80	SOV	-	8:09	-7.2%	8:09	-7.2%	8:47
	HOV	-	8:04	-8.0%	8:08	-7.2%	8:46
Travel Time: Blue Oaks Blvd to Antelope Rd	SOV	9:44	8:51	-4.5%	8:50	-4.7%	9:16
	HOV	9:27	8:33	-3.9%	8:33	-3.9%	8:54

Table G-4. Comparison of Overall Network Performance – Construction (2020) Year AM Peak Period

Performance Measure		Existing Conditions	Carpool Lane Alternative	% Change from No Build	General Purpose Lane Alternative	% Change from No Build	No Build Alternative
Volume Served		198,170	231,400	-1.1%	232,110	-0.8%	233,870
(% of total demand)		101%	99%	0.0%	99%	0.0%	99%
Vehicle Miles of Travel (VMT)		730,100	924,670	1.7%	930,140	2.3%	909,560
Person Miles of Travel		880,180	1,146,120	2.0%	1,150,200	2.4%	1,123,280
Vehicle Hours of Travel (VHT)		16,850	27,210	5.2%	25,890	0.1%	25,870
Vehicle Hours of Delay (VHD)		3,950	10,940	11.2%	9,520	-3.3%	9,840
(% of VHT)		23%	40%	5.3%	37%	-2.6%	38%
Average Delay per Vehicle (min)		1.20	2.84	12.7%	2.46	-2.4%	2.52
Person Hours of Delay		4,670	12,770	10.9%	11,220	-2.6%	11,520
Average Speed		43.3	34.0	-3.4%	35.9	2.0%	35.2
Average Speed for HOVs		44.7	39.1	-1.0%	39.8	0.8%	39.5
Travel Time: Ferrari Ranch Rd to I-80	SOV	-	7:56	0.0%	7:59	0.6%	7:56
	HOV	-	7:56	0.2%	7:59	0.8%	7:55
Travel Time: Blue Oaks Blvd to Antelope Rd	SOV	9:16	20:03	15.3%	14:05	-19.0%	17:23
	HOV	9:11	9:23	-2.6%	9:09	-5.0%	9:38

Table G-5. Comparison of Overall Network Performance – Construction (2020) Year PM Peak Period

Performance Measure		Existing Conditions	Carpool Lane Alternative	% Change from No Build	General Purpose Lane Alternative	% Change from No Build	No Build Alternative
Volume Served		143,450	208,160	-0.3%	207,470	-0.6%	208,800
(% of total demand)		100%	99%	0.0%	99%	0.0%	99%
Vehicle Miles of Travel (VMT)		645,270	940,220	2.5%	950,660	3.6%	917,290
Person Miles of Travel		786,260	1,113,340	1.7%	1,133,470	3.5%	1,094,920
Vehicle Hours of Travel (VHT)		13,760	21,710	-1.9%	21,960	-0.8%	22,140
Vehicle Hours of Delay (VHD)		2,670	5,540	-12.5%	5,620	-11.2%	6,330
(% of VHT)		19%	26%	-10.3%	26%	-10.3%	29%
Average Delay per Vehicle (min)		1.12	1.60	-12.1%	1.63	-10.4%	1.82
Person Hours of Delay		3,240	6,320	-13.7%	6,490	-11.3%	7,320
Average Speed		46.9	43.3	4.6%	43.3	4.6%	41.4
Average Speed for HOVs		47.0	46.4	5.0%	45.9	3.8%	44.2
Travel Time: Ferrari Ranch Rd to I-80	SOV	-	7:49	-30.1%	7:53	-29.5%	11:11
	HOV	-	7:43	-30.1%	7:50	-29.0%	11:02
Travel Time: Blue Oaks Blvd to Antelope Rd	SOV	9:44	8:35	-11.4%	8:37	-11.0%	9:41
	HOV	9:27	8:23	-12.8%	8:29	-11.8%	9:37

Table G-6. Comparison of Overall Network Performance – Design (2040) Year AM Peak Period

Performance Measure		Existing Conditions	Carpool Lane Alternative	% Change from No Build	General Purpose Lane Alternative	% Change from No Build	No Build Alternative
Volume Served		198,170	300,780	-0.6%	300,820	-0.6%	302,580
(% of total demand)		101%	100%	1.0%	100%	1.0%	99%
Vehicle Miles of Travel (VMT)		730,100	1,160,700	4.9%	1,166,400	5.4%	1,106,390
Person Miles of Travel		880,180	1,402,510	5.6%	1,402,330	5.6%	1,328,540
Vehicle Hours of Travel (VHT)		16,850	30,890	-6.2%	30,920	-6.1%	32,920
Vehicle Hours of Delay (VHD)		3,950	10,470	-21.7%	10,430	-22.0%	13,380
(% of VHT)		23%	34%	-17.1%	34%	-17.1%	41%
Average Delay per Vehicle (min)		1.20	2.09	-21.1%	2.08	-21.5%	2.65
Person Hours of Delay		4,670	12,230	-20.8%	12,160	-21.3%	15,450
Average Speed		43.3	37.6	11.9%	37.7	12.2%	33.6
Average Speed for HOVs		44.7	40.5	8.6%	40.4	8.3%	37.3
Travel Time: Ferrari Ranch Rd to I-80	SOV	-	7:52	-29.2%	7:53	-29.1%	11:07
	HOV	-	7:51	-17.9%	7:51	-17.9%	9:34
Travel Time: Blue Oaks Blvd to Antelope Rd	SOV	9:16	6:31	-44.7%	6:32	-44.6%	11:47
	HOV	9:11	6:20	-3.6%	6:20	-3.6%	6:34

Table G-7. Comparison of Overall Network Performance – Design (2040) Year PM Peak Period

Appendix H. PM Interagency Consultation

The SR 65 Capacity and Operational Improvements Project underwent interagency consultation (IAC) through SACOG's Project Level Conformity Group (PLCG). The PLCG issued concurrence that the project is not a project of air quality concern (POAQC) on August 9, 2016. This appendix provides evidence that the IAC concurred with the conclusion that the project is not a POAQC, including concurrence emails from the U.S. Environmental Protection Agency and the Federal Highway Administration.

This project was categorically excluded from NEPA requirements. Therefore no public circulation of this hot-spot review or an updated conformity determination is required.
Ngan, Sandy

From:	Jose Luis Caceres <jcaceres@sacog.org></jcaceres@sacog.org>
Sent:	Tuesday, August 09, 2016 11:39 AM
То:	Yoon, Laura
Cc:	Sandy.Ngan@icfi.com,Luke McNeel-Caird <imcneel-< td=""></imcneel-<>
	caird@pctpa.net>,Claire.Bromund@icfi.com
Subject:	Fwd: Re: POAQC SR 65 Capacity & Operational Improvements Phase 1 project: Due July
	1st

Save this too. This is EPA's concurrence.

- José Luis Cáceres

----- Forwarded message ------From: "OConnor, Karina" <OConnor.Karina@epa.gov> Date: Jul 15, 2016 8:14 AM Subject: Re: POAQC SR 65 Capacity & Operational Improvements Phase 1 project: Due July 1st To: "Lee, Jason@DOT" <jason.lee@dot.ca.gov>,Jose Luis Caceres <JCaceres@sacog.org> Cc:

> EPA also concurs that this is not a project of air quality concern.

```
>
>
> Karina OConnor
>
> EPA, Region 9
>
> Air Planning Office (AIR-2)
>
> (775) 434-8176
> oconnor.karina@epa.gov
>
>
> From: Lee, Jason@DOT < jason.lee@dot.ca.gov>
> Sent: Friday, July 15, 2016 6:59:49 AM
> To: Jose Luis Caceres; OConnor, Karina
> Subject: RE: POAQC SR 65 Capacity & Operational Improvements Phase 1 project: Due July 1st
>
>
> Hi Jose!
>
>
>
> Caltrans concurs that the project above is NOT a Project of Air Quality of Concern (POAQC) after reviewing
the attached IAC.
>
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>
> Thanks a lot!
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>
>
> Sorry for a late response! I was out of town for a while!
>
>
>
> Jason Lee, PE
>
> Air Quality and Noise Unit
>
>
>
> From: Jose Luis Caceres [mailto:JCaceres@sacog.org]
> Sent: Wednesday, July 13, 2016 10:36 AM
> To: oconnor.karina@epa.gov; Lee, Jason@DOT < jason.lee@dot.ca.gov>
> Subject: FW: POAQC SR 65 Capacity & Operational Improvements Phase 1 project: Due July 1st
>
>
>
> Karina and Jason,
>
>
>
> I'm just following up on this POAQC request. Assuming that you agree that this project is not a project of
quality concern, could I please get an email from each of you confirming that? If you could send something this
week, that would be great.
>
>
>
> - José Luis
>
>
>
> From: Jose Luis Caceres
> Sent: Friday, June 17, 2016 7:51 AM
> To: sspaethe@fraqmd.org; Wright Molly (mwright@airquality.org); Heather.Phillips@arb.ca.gov;
sharon.tang@dot.ca.gov; douglas.coleman@dot.ca.gov; shalanda christian@dot.ca.gov; Lee Jason
(jason.lee@dot.ca.gov); rodney.tavitas@dot.ca.gov; alexander.fong@dot.ca.gov; jbarton@edctc.org;
dave.johnston@edcgov.us; Ungvarsky.John@epa.gov; oconnor.karina@epa.gov; Joseph.Vaughn@dot.gov;
Imcneel-caird@pctpa.net; AGreen@placer.ca.gov; Renee DeVere-Oki; Jose Luis Caceres;
CAnderson@airquality.org; ALETA KENNARD; pphilley@airquality.org; mjones@ysaqmd.org
> Cc: Shengyi Gao; Imcneel-caird@pctpa.net; alee@markthomas.com; Hatcher, Shannon; Cooper, Keith;
Ngan, Sandy; Bromund, Claire; Yoon, Laura
> Subject: POAQC SR 65 Capacity & Operational Improvements Phase 1 project: Due July 1st
>
>
                                                    2
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>
> (Resending with the correct deadline.)
>
>
>
> Project Level Conformity Group,
>
>
>
> Attached for interagency review is PCTPA's SR 65 Capacity & Operational Improvements Phase 1 project (PLA25529). As part of project level conformity under NEPA, it requires a determination of whether it is a project of air quality concern.
>
> Please confirm that you concur that this is NOT a Project of Air Quality Concern (POAQC). Please email questions and comments by 5 p.m., Friday, July 1st.
>
>
>
> This project falls under the 6004 federal process. As such, it requires written concurrence by EPA
(Karina O'Conner) and Caltrans (Jason Lee). Please remember to use "reply all," to make comments to the
group. Otherwise, you may also contact the consultant for the sponsor directly:
>
>
>
> LAURA YOON Air Quality and Climate Change Specialist 916.231.9774 <u>laura.yoon@icfi.com</u> icfi.com
> ICF INTERNATIONAL 630 K Street Suite 400 Sacramento CA 95814 916 276 5874 (m)
Sincerely
> Sincerery;
Zosá Luis Cásores
> Juse Luis Caccies
> transportation Planner, SACOG
> (910) 340-0218

Ngan, Sandy

From:	Jose Luis Caceres <jcaceres@sacog.org></jcaceres@sacog.org>
Sent:	Tuesday, August 09, 2016 11:39 AM
То:	Yoon, Laura
Cc:	Claire.Bromund@icfi.com,Sandy.Ngan@icfi.com,Luke McNeel-Caird <lmcneel- caird@pctpa.net></lmcneel-
Subject:	Fwd: RE: POAQC SR 65 Capacity & Operational Improvements Phase 1 project: Due July 1st

Laura,

Save this. This is Caltrans' concurrence.

- José Luis Cáceres

----- Forwarded message -----From: "Lee, Jason@DOT" <jason.lee@dot.ca.gov> Date: Jul 15, 2016 6:59 AM Subject: RE: POAQC SR 65 Capacity & Operational Improvements Phase 1 project: Due July 1st To: Jose Luis Caceres <JCaceres@sacog.org>,oconnor.karina@epa.gov Cc:

Hi Jose!

Caltrans concurs that the project above is <u>NOT</u> a Project of Air Quality of Concern (<u>POAQC</u>) after reviewing the attached IAC.

Thanks a lot!

Sorry for a late response! I was out of town for a while!

Jason Lee, PE

Air Quality and Noise Unit

From: Jose Luis Caceres [mailto:JCaceres@sacog.org]
Sent: Wednesday, July 13, 2016 10:36 AM
To: oconnor.karina@epa.gov; Lee, Jason@DOT <jason.lee@dot.ca.gov>
Subject: FW: POAQC SR 65 Capacity & Operational Improvements Phase 1 project: Due July 1st

Karina and Jason,

I'm just following up on this **POAQC** request. Assuming that you agree that this project is not a project of quality concern, could I please get an email from each of you confirming that? If you could send something this week, that would be great.

- José Luis

From: Jose Luis Caceres Sent: Friday, June 17, 2016 7:51 AM To: sspaethe@fraqmd.org; Wright Molly (mwright@airquality.org); Heather.Phillips@arb.ca.gov; sharon.tang@dot.ca.gov; douglas.coleman@dot.ca.gov; shalanda_christian@dot.ca.gov; Lee Jason (jason.lee@dot.ca.gov); rodney.tavitas@dot.ca.gov; alexander.fong@dot.ca.gov; jbarton@edctc.org; dave.johnston@edcgov.us; Ungvarsky.John@epa.gov; oconnor.karina@epa.gov; Joseph.Vaughn@dot.gov; Imcneel-caird@pctpa.net; AGreen@placer.ca.gov; Renee DeVere-Oki; Jose Luis Caceres; CAnderson@airquality.org; ALETA KENNARD; pphilley@airquality.org; mjones@ysaqmd.org Cc: Shengyi Gao; Imcneel-caird@pctpa.net; alee@markthomas.com; Hatcher, Shannon; Cooper, Keith; Ngan, Sandy; Bromund, Claire; Yoon, Laura Subject: POAQC SR 65 Capacity & Operational Improvements Phase 1 project: Due July 1st

(Resending with the correct deadline.)

Project Level Conformity Group,

Attached for interagency review is PCTPA's SR 65 Capacity & Operational Improvements Phase 1 project (PLA25529). As part of project level conformity under NEPA, it requires a determination of whether it is a project of air quality concern.

Please confirm that you concur that this is NOT a Project of Air Quality Concern (POAQC). Please email questions and comments by 5 p.m., Friday, July 1st.

This project falls under the 6004 federal process. As such, it requires written concurrence by EPA (Karina O'Conner) and Caltrans (Jason Lee). Please remember to use "reply all," to make comments to the group. Otherwise, you may also contact the consultant for the sponsor directly:

LAURA YOON | Air Quality and Climate Change Specialist | 916.231.9774 | <u>laura.yoon@icfi.com</u> | icfi.com

ICF INTERNATIONAL | 630 K Street, Suite 400, Sacramento, CA 95814 | 916.276.5874 (m)

Sincerely,

José Luis Cáceres Transportation Planner, SACOG (916) 340-6218

Ngan, Sandy

From:	Jose Luis Caceres <jcaceres@sacog.org></jcaceres@sacog.org>
Sent:	Tuesday, August 09, 2016 11:38 AM
То:	Jerry Barton <jbarton@edctc.org>,Kennard Aleta</jbarton@edctc.org>
	<akennard@airquality.org>,Ungvarsky.John@epa.gov,Heather.Phillips@arb.ca.gov,CAn derson@airquality.org,Renee DeVere-Oki <rdevere-< td=""></rdevere-<></akennard@airquality.org>
	Oki@sacog.org>,sharon.tang@dot.ca.gov,Imcneel-caird@pctpa.net,"Wright Molly (mwright@airquality.org)"
	<mwright@airquality.org>,oconnor.karina@epa.gov,alexander.fong@dot.ca.gov,shalan da_christian@dot.ca.gov,sspaethe@fraqmd.org,rodney.tavitas@dot.ca.gov,mjones@ysa gmd.org,AGreen@placer.ca.gov,douglas.coleman@dot.ca.gov,"Lee Jason (jason.l</mwright@airquality.org>
Cc:	Yoon, Laura
Subject:	Re: POAQC SR 65 Capacity & Operational Improvements Phase 1 project: Due July 1st

Project Level Conformity Group:

I received concurrence on July 15 from both Caltrans and EPA. PCTPA's SR 65 Capacity & Operational Improvements Phase 1 project (PLA25529) has been determined through SACOG's interagency review process to NOT be a project of air quality concern.

José Luis Cáceres Transportation Planner, SACOG (916) 340-6218

On Jun 17, 2016 7:51 AM, Jose Luis Caceres <JCaceres@sacog.org> wrote:

(Resending with the correct deadline.)

Project Level Conformity Group,

Attached for interagency review is PCTPA's SR 65 Capacity & Operational Improvements Phase 1 project (PLA25529). As part of project level conformity under NEPA, it requires a determination of whether it is a project of air quality concern.

Please confirm that you concur that this is NOT a Project of Air Quality Concern (POAQC). Please email questions and comments by 5 p.m., Friday, July 1st.

This project falls under the 6004 federal process. As such, it requires written concurrence by EPA (Karina O'Conner) and Caltrans (Jason Lee). Please remember to use "reply all," to make comments to the group. Otherwise, you may also contact the consultant for the sponsor directly:

LAURA YOON | Air Quality and Climate Change Specialist | 916.231.9774 | laura.yoon@icfi.com | icfi.com

ICF INTERNATIONAL | 630 K Street, Suite 400, Sacramento, CA 95814 | 916.276.5874 (m)

Sincerely,

José Luis Cáceres Transportation Planner, SACOG (916) 340-6218